Subject Index—Volumes 298 to 309

A

Acetabular components

cemented, dysplastic hip and, **298:**60 fixation with biodegradable devices, **306:**250 oversized, implantation in total hip arthroplasty, **298:**127

uncemented, osteolysis and, 298:202

Acetabular implants, porous coated, initial stability, 307:117

Acetabular surgery, intraoperative evoked potential monitoring and, 305:160 Acetabulum

dysplasia, posttraumatic, 305:124 fracture, 305:5

complex, 305:58

delayed reconstruction, 305:20 extended ilioinguinal approach, 305:106 fixation via modified Stoppa limited intrapelvic approach, 305:112

intrapelvic approach, 305:112
heterotopic ossification and, 305:96
heterotopic ossification prophylaxis and,
305:88

iliofemoral versus triradiate approach, 305:81

imaging, 305:152

malreduced, surgical revision, **305**:47 open reduction and internal fixation, **305**:31

operative treatment, 305:10

results of treatment, 305:53

somatosensory evoked potential monitoring and, 301:213

surgical complications, prevention, **305:**133 surgically treated, prospective study, **305:**38

osteoid osteoma, 304:204

ectopic ossification and, 299:209

protrusion, secondary to pelvic hemangioma, 306:209

three-dimensional computed tomography and, 305:138

Achilles tendinopathy, blood flow and, 308:166 Achilles tendon

allograft, anterior cruciate ligament reconstruction and, 303:67

ruptured, 308:155 ACL. See Anterior cruciate ligament

ACLP. See Anterior cervical locking plate Acquired hallux varus, operative treatment,

Acquired immunodeficiency syndrome (AIDS), allograft safety and, 303:8

Acromioclavicular dislocation, **300:**120 Acromion, congenital bilateral absence, **300:**117

ACTS. See Acute carpal tunnel syndrome

Acute carpal tunnel syndrome (ACTS), 300:141 Adamantinoma, osteofibrous dysplasia and, 300:234

Adenoma, pleomorphic, benign metastasizing, 308:192

Adhesion molecules, synovial pannus formation in rheumatoid arthritis and, 300:297

AIDS. See Acquired immunodeficiency syndrome Alcohol, locomotor complaints in middle age and, 308:264

Alfacalcidol, osteoporosis and, **300:**241 ALIF. *See* Anterior lumbar interbody fusion

achilles tendon, anterior cruciate ligament reconstruction and, 303:67

bone

desmoplastic fibroma and, 300:219 infection, 306:46

preparation and safety, 303:8 screw pullout strength and, 302:290

bone-patellar tendon-bone, anterior cruciate ligament reconstruction and, **303:6**7

distal femoral osteoarticular, **303:**103 elbow, failed total elbow arthroplasty and, **303:**135

Subject Index—Volumes 298 to 309

A

Acetabular components

cemented, dysplastic hip and, **298:**60 fixation with biodegradable devices, **306:**250 oversized, implantation in total hip arthroplasty, **298:**127

uncemented, osteolysis and, 298:202

Acetabular implants, porous coated, initial stability, 307:117

Acetabular surgery, intraoperative evoked potential monitoring and, 305:160 Acetabulum

dysplasia, posttraumatic, 305:124 fracture, 305:5

complex, 305:58

delayed reconstruction, 305:20 extended ilioinguinal approach, 305:106 fixation via modified Stoppa limited intrapelvic approach, 305:112

intrapelvic approach, 305:112
heterotopic ossification and, 305:96
heterotopic ossification prophylaxis and,
305:88

iliofemoral versus triradiate approach, 305:81

imaging, 305:152

malreduced, surgical revision, **305**:47 open reduction and internal fixation, **305**:31

operative treatment, 305:10

results of treatment, 305:53

somatosensory evoked potential monitoring and, 301:213

surgical complications, prevention, **305:**133 surgically treated, prospective study, **305:**38

osteoid osteoma, 304:204

ectopic ossification and, 299:209

protrusion, secondary to pelvic hemangioma, 306:209

three-dimensional computed tomography and, 305:138

Achilles tendinopathy, blood flow and, 308:166 Achilles tendon

allograft, anterior cruciate ligament reconstruction and, 303:67

ruptured, 308:155 ACL. See Anterior cruciate ligament

ACLP. See Anterior cervical locking plate Acquired hallux varus, operative treatment,

Acquired immunodeficiency syndrome (AIDS), allograft safety and, 303:8

Acromioclavicular dislocation, **300:**120 Acromion, congenital bilateral absence, **300:**117

ACTS. See Acute carpal tunnel syndrome

Acute carpal tunnel syndrome (ACTS), 300:141 Adamantinoma, osteofibrous dysplasia and, 300:234

Adenoma, pleomorphic, benign metastasizing, 308:192

Adhesion molecules, synovial pannus formation in rheumatoid arthritis and, 300:297

AIDS. See Acquired immunodeficiency syndrome Alcohol, locomotor complaints in middle age and, 308:264

Alfacalcidol, osteoporosis and, **300:**241 ALIF. *See* Anterior lumbar interbody fusion

achilles tendon, anterior cruciate ligament reconstruction and, 303:67

bone

desmoplastic fibroma and, 300:219 infection, 306:46

preparation and safety, 303:8 screw pullout strength and, 302:290

bone-patellar tendon-bone, anterior cruciate ligament reconstruction and, **303:6**7

distal femoral osteoarticular, **303:**103 elbow, failed total elbow arthroplasty and, **303:**135

extensor mechanism reconstruction and. 303:79

extremities and pelvis, 307:200

fascia lata, reconstruction of anterior cruciate ligament defects and. 303:56

frozen, distal femur and proximal tibia replacement and, 303:95

meniscal transplantation, 303:44

osteoarticular, distal femoral osteonecrosis and. 303:38

osteochondral, articular defects in osteochondritis dissecans and. 303:33 procurement, swab cultures and, 300:259

reconstruction

proximal tibial resection for bone tumors and, 303:116

revision total knee arthroplasty and, 303:86 tissue, preparation and safety, 303:8

Alumina-alumina hip replacement, 298:175

Alveolar soft-part sarcoma, clinical presentation, 300:213

Ambulation, stair, below-knee amputee gait and, 303:185

AML prosthesis. See Anatomic medullary locking prosthesis

Amputation

below elbow, Ilizarov stump lengthening,

below knee

salvaged tibial fracture versus, 301:227 stump reconstruction, 307:229 cost of limb salvage compared, 301:156 failed total knee arthroplasty and, 299:173 wound cover. 304:248

Amputee gait, below knee, 303:185

Analgesia, postoperative epidural, total knee arthroplasty and, 299:44

Anatomic medullary locking (AML) prosthesis,

Anchylosis, bony, artificial hip joint and, 298:4 Angiography, femoral head osteonecrosis and, 308:127

Ankle

arthrodesis, 304:195

early postoperative exercise, 300:193

fusion, Ilizarov method and, 303:217

pain, 306:284

plantar flexion injury, 306:97

superficial peroneal nerve, surgical anatomy, 305:229

surgery, psoriasis and, 300:201

Ankylosis, elbow, treatment by joint transplantation, 303:4

Anomalous hand muscle, 306:120

Anomalous tibial nerve. 305:239

Anterior cervical locking plate (ACLP), 300:79

Anterior cruciate ligament (ACL)

lateral tibial avulsion fractures and, 303:193 mechanoreceptors, 308:29

reconstructed knees, 307:165

reconstruction, 299:298, 303:67

fascia lata allografts and, 303:56

interference fixation versus postfixation, 300:281

patella baja and, 299:229

tibial osteotomy and, 229:220

tears. 302:147

Anterior decompression, fracture of thoracolumbar spine and, 300:16

Anterior instrumentation, complications, 306:110

Anterior lumbar fusion, 300:30 options, 300:45

Anterior lumbar interbody fusion (ALIF), 300:90 Anterior spinal fusion, 300:16

Anterior surgery

scoliosis and, 300:38

vertebral fractures with and without cord compression and, 300:79

Antibiotic-impregnated bone cement, 309:44 Antibiotics, total knee arthroplasty and, 299:163

Anticoagulation, deep venous thrombosis after total joint arthroplasty and, 299:86

Antiproteases, cartilage homeostasis and, 308:79

Arpege scoring system, 299:220 Arteries, limb lengthening and, 308:54

Arteriovenous fistula, peroneal, formation after blunt trauma, 304:216

Arthritis

conservative surgery in young patients, 301:94

glenohumeral, imaging techniques and, 307:7 rheumatoid. See Rheumatoid arthritis traumatic, imaging techniques and, 307:7

Arthrodesis

ankle, 304:195

compression, small joints of hand and, 304:116

staged, 307:174

tibiotalar, 303:217

Arthroplasty

acute shoulder trauma and, 307:27

articular. See Total articular replacement arthroplasty

bipolar, progressive migration and, 304:156

bipolar shoulder, 304:97

elbow. See Total elbow arthroplasty

glenohumeral, imaging techniques and, **307:**7 hip. *See* also Total hip arthroplasty

mentally impaired patient and, 308:146

implant. See Implant arthroplasty

knee. See Total knee arthroplasty

molded, 308:43

primary Charnley low friction

femoral prosthesis fixation failure and, **306:**73

radiologic failure of socket and, 306:84 revision

cemented Charnley, 303:165

imaging techniques and, 307:7

indications, 298:11

infection and, 304:229

shoulder. See also Total shoulder arthroplasty bipolar, 304:97

complications, 307:47

revision, 307:47

rheumatoid arthritis and, 307:94

unicompartmental knee. See

Unicompartmental knee arthroplasty Arthroscopic diskectomy, posterolateral, 304:122

Arthroscopic distal clavicle excision, 301:181
Arthroscopy, resistant frozen shoulder and,
304:30

Arthrosis, knee, patterns, 309:56

Articular cartilage

cryopreservation, 303:18

effect of limb lengthening, 301:68

elbow, biomechanics, 299:305

repair, continuous passive motion and, 304:252

Articular defects, osteochondritis dissecans and, 303:33

Articulated distraction, hip and, 301:94

Ascending colon, tumor, gas gangrene and, 308:178

Atlas, tumors, 307:182

Autograft, femoral head. See Femoral head autograft

Autologous shed blood, autotransfusion and, 299:53

Autotransfusion, autologous shed blood and, 299:53

Avascular necrosis (AVN)

cementless total hip arthroplasty and, 303:147

femoral epiphysis and, 304:172

femoral head, 301:191, 306:17

prognostication, 303:155

hip, 307:124

Legg-Calve-Perthes disease and, 298:199

AVN. See Avascular necrosis

B

Back pain, percutaneous diagnostic stabilization, 304:130

Baker's cyst, 308:251

Bankart procedure, 308:102

Basement membrane, distraction osteogenesis and, 301:132

Basic fibroblast growth factor, ligament healing and, 308:207

Bateman bipolar hemiarthroplasty, femoral neck fracture and, 302:75

bBMP. See Bovine bone morphogenetic protein Biomaterials

embryonic osteoblasts and, 308:73

implanted, immuno-incompetent fibroinflammatory zone and, 298:106

Bipolar arthroplasty, progressive migration and, 304:156

Bipolar shoulder arthroplasty, 304:97

Bleeding, cement-bone interface and, 299:293

Blood conservation, total knee arthroplasty and, 299:147

Blood flow

chronic Achilles tendinopathy and, 308:166 distraction osteogenesis and, 301:124

measurements in canine bone, 303:264

Blood vessels, basement membrane, distraction osteogenesis and, **301:**132

Blunt trauma, peroneal arteriovenous fistula/ pseudoaneurysm formation and, 304;218

BMP. See Bone morphogenetic protein Bone

allograft

desmoplastic fibroma and, 300:219

infection, 306:46

preparation and safety, 303:8

screw pullout strength and, 302:290

canine, blood flow measurements and, 303:264

cavitary lesions, granular tricalcium phosphate grafting and, 306:197

cells, growth on microcarriers, 300:254

cysts, simple, oxygen scavengers and, 308:199

demineralized matrix

effects of pollen from *Typha augustata*, **306:**239

segmental freeze-dried allogeneic bone grafting and, 298:286

disease, metabolic, deformity secondary, 301:38

formation

CHO tumors and, 300:274

distraction osteogenesis and, **301:**25 heterotopic, etretinate-induced, **308:**139 hydroxyapatite and, **304:**272

interaction of bone and muscle and, 302:266

subperiosteal, negatively charged resins and, 298:266

giant cell tumors, pulmonary metastasis, 302:219

graft. See also Bone grafting

vascularized, effects of methotrexate, 301:291

healing, limb lengthening and, 301:31 heterotopic, traumatic fracture, 308:173 interaction with muscle, 302:266

lengthened, biomechanical and physical properties, **306:**230

lengthening. See also Limb lengthening imaging, 308:50

loss, chronic infected tibial nonunions and, 301:139

marrow, limb lengthening and, 303:250 matrix extracts, in vitro, 299:263

metastatic hepatocellular carcinoma and, 303:237

mineral density, periprosthetic, total hip arthroplasty and, 309:214

Pagetic, vascularity, 306:247

primary sarcomas of pelvis, oncologic outcomes, **304:**207

surface-based hemangiomas, **300:**233 systemic changes, rheumatoid arthritis and, **298:**250

transfilter induction, 300:269

transportation

chronic infected tibial nonunions and, **301:**139

large segmental bone defects and, **298**:259, **301**:147

segmental skeletal defects and, 301:111

tumor resection

distal femoral osteoarticular allografts and, 303:103

electromagnetic fields and, **306**:213 proximal tibial, allograft reconstruction and, **303**:116

Bone cement, antibiotic-impregnated, **309**:44 Bone-cement interface, bleeding and, **299**:293 Bone grafting

anterior lumbar fusion and, 300:45 cancellous

avascular necrosis of femoral head and, 306:17

semiopen, 306:175

electromagnetic fields and, 306:213 iliac, fracture at harvest site, 309:208

irradiation and, 300:207

segmental freeze-dried allogeneic, demineralized bone matrix and, **298:**286

segmental skeletal defects and, 301:111 total hip arthroplasty and, 298:2, 147

Bone morphogenetic protein (BMP), 298:305, 299:263

Bone morphogenetic protein-2 (BMP-2), canine spinal fusion model and, **308:**229

Bone morphogenetic protein-4 (BMP-4), 300:269, 274

Bone morphogenetic protein-7 (BMP-7), longbone segmental defect model and, 301:302

Bone-patellar tendon-bone allograft, anterior cruciate reconstruction and, 303:67

Bony anchylosis, artificial hip joint and, 298:4 Bony ingrowth, promotion by mechanical strain, 298:165

Bovine bone morphogenetic protein (bBMP), repair of skull defects and, 301:263

Brachial artery, compression, lacertus fibrosus and, 307:110

Brachium, reconstruction, pedicle latissimus dorsi transfer and, **309:**201

Bristow-Latarjet procedure, 308:102

Bupivacaine, postoperative epidural analgesia and. 299:44

Bursitis, subacromial, rice bodies and, 301:185

C

Calcaneal spur, plantar heel pain and, 306:192 Calcium

homeostasis, rheumatoid arthritis and, 298:250

intracellular, matrix vesicle biogenesis and, 306:222

osteoporosis and, 300:241

Calcium phosphates, osteoconductive properties, 298:11

Callus

axial loading and, 307:250 distraction, femoral lengthening and, 309:222 fracture

osteopetrosis and, 308:85 Type X collagen and, 308:220

Calvarial defects, pollen from Typha augustata and, 306:239

Canada, impact of health care reform on orthopaedic surgery, 308:271

Cancellous bone grafting

avascular necrosis of femoral head and, 306:17

semiopen, 306:175

Capitellum, fracture, Herbert screw fixation, 300:123

Carbofix rings, 308:68

Carbon fiber scaffolds, knee osteoarthritis and, 307:155

Carcinoma, metastatic hepatocellular, bone and, 303:237

Carpal tunnel syndrome, acute, 300:141

Cartilage homeostasis, proteases and antiproteases and, 308:79

Cavitary lesions, granular tricalcium phosphate grafting and, 306:197

Cefamandole, total knee arthroplasty and, 299:163

Cefazolin, total knee arthroplasty and, **299:**163 Cement-bone interface, bleeding and, **299:**293

Cemented Charnley revision arthroplasty, longterm results, 303:165

Cemented hip arthroplasty, granulomatous periprosthetic lesions and, 300:155

Cemented hip replacement, femoral intramedallary pressure and, 302:297

Cement fixation, total hip arthroplasty and, 298:2 Cerebral palsy, gastroc-soleus contracture and,

301:249 Cervical spine, **300:**79

posterior longitudinal ligament, ossification, 305:168

Chinese hamster ovary (CHO) cells, transfilter bone induction and, 300:269

Chinese hamster ovary (CHO) tumors, bone formation and, 300:274

Chondrocytes, cultured, osteochondral defects and, 302:251

Chondrogenesis

bone morphogenetic protein-induced, cell function and, 298:305

periosteal, enhancement *in vitro*, **301**:271 Chondroma, intracapsular and paraarticular.

303:231

Chromatin, structure, 306:264

Chromosomes, structure and function, 306:264

Chymopapain, 307:260

Clavicle

distal, arthroscopic excision, 301:181 fracture, incidence, 300:127

Clostridial myonecrosis, 308:178

Clostridium septicum gas gangrene, 308:178 Cloxacillin, total knee arthroplasty and, 299:163

Clubfoot

congenital correction, 308:4

medial sagittal approach, 302:156 correction, Ilizarov method and, 301:89

Cobalt chromium femoral components, simulated wear, 309:176

Cobra plate, 300:147

Cold compressive dressing, total knee arthroplasty and, 299:143

Collagen

synthesis in canine meniscus, 303:256

Type I, synthesis after rotator cuff tear, 304:18

Type X, fracture repair in diabetes and, 308:220

Collagenase, type IV, total hip replacement endoprostheses and, 306:136

Colon, tumor, gas gangrene and, 308:178

Compartment syndrome

lithotomy position, fracture-table positioning and, 301:239

er extremity infection and, 306:128

Compression arthrodesis, small joints of hand and, 304:116

Compression injury, pelvic, biomechanical simulation, 309:245

Computed tomography (CT)

axial, acetabular fracture and, 305:152

fatty muscle degeneration in cuff ruptures and, 304:78

patellofemoral disorders and, 308:18

percutaneous, posterior pelvic fracture stabilization and, 307:222

three-dimensional

pelvis and acetabulum and, 305:138 reconstruction of tibial torsion, 302:42

Congenital scoliosis, 300:38

Continuous passive motion (CPM) articular cartilage repair and, **304**:252 shoulder arthroplasty and, **307**:70

Contracture

gastroc-soleus, cerebral palsy and, **301**:249 knee flexion, mechanical distraction and, **301**:80

tendoachilles, 301:249

Coracoacromial ligament, rotator cuff disease and, 304:10

Coracoclavicular ligament, rupture, **300:**120 Coracoid process

fracture, 300:120

osteoid osteoma, 301:260

Cortical apposition, femoral lengthening and, 309:222

Corticotomy, techniques, 301:19 Costotransversectomy, 300:70

CPM. See Continuous passive motion

Crankshaft phenomenon, 300:38

Cruciate ligament acute injury, 307:146

anterior. See Anterior cruciate ligament posterior, total knee arthroplasty and, 309:64, 88

Cryocuff dressing, 299:143

Cryopreservation

allogeneic periosteum, 300:288 articular cartilage, 303:18

Cryosurgery, subchondral tumors of knee and, 307:189

CT. See Computed tomography

Culture

embryonic osteoblast, **308:**73 perioperative, pediatric lower-extremity fracture and, **302:**206

Cysts

Baker's, 308:251 bone, oxygen scavengers and, 308:199 meniscal, medial, 304:190 synovial, formation, 299:2

Cytokines, failed total hip arthroplasty and, 300:304

D

D'Aubigne score, **298:**156, 175 DBM. *See* Demineralized bone matrix Debridement

avascular necrosis of femoral head and, 306:17

chronic osteomyelitis and, 298:229

hip implant infection and, 298:75

infected total knee arthroplasty and, 299:169

Deep vein thrombosis (DVT)

acetabular and pelvic fracture surgery and, 305:133

total hip arthroplasty and, 299:203

total joint arthroplasty and, 299:25, 86 ultrasonographic screening and monitoring

and, 307:130

Deformity

long bone, percutaneous intramedullary fixation, **305:**242

lower-extremity, Ilizarov method and, 301:102 rotational

femur fractures in children and, 302:27 fixed of femur, 302:69

secondary to metabolic bone disease, Ilizarov method and, 301:38

spinal, fixed decompensated, **306**:64 torsional, Ilizarov apparatus and, **302**:36

Demineralized bone matrix (DBM)

effects of pollen from *Typha augustata*, **306:**239

segmental freeze-dried allogeneic bone grafting and, 298:286

De Quervain's disease, 308:241

Desmoplastic fibroma, allograft bone in treatment, 300:219

Diabetes mellitus, fracture repair and, 308:220 Diaphyseal fracture, forearm bone plating and,

Diffuse pigmented villonodular synovitis (DPVS) diagnostic features, 298:212 surgical treatment, 300:183

Diskectomy

lumbar, fusion and, **301**:177 thoracic and lumbar, posterolateral arthroscopic, **304**:122

Dislocation

acromioclavicular, **300**:120 glenohumeral, recurrent posterior, **308**:98 patellar, recurrent, **308**:8 prosthetic femoral head, postoperative, **301**:196

shoulder, primary anterior, **304:**74 subtalar, medial, **303:**226

Distraction

articulated, hip and, 301:94

mechanical, knee flexion contractures and, 301:80

Distraction histogenesis, 301:2

Distraction osteogenesis, 301:2, 10

basement membrane of blood vessels and, 301:132

blood flow and, 301:124

corticotomy techniques, 301:19

determination of bone stiffness, quantitative computed tomography and, 301:42

experimental healing, 301:25

predictors of healing during tibial lengthening, 301:73

stiff hypertrophic nonunions and, 301:159

Diuretics, effects on posttraumatic joint stiffness and limb swelling, 302:284

DNA

methylation, 306:264

structure and function, 306:264

DPVS. See Diffuse pigmented villonodular synovitis

Duplex ultrasonography, deep vein thrombosis and, 307:130

DVT. See Deep vein thrombosis

Dysplasia

acetabular, posttraumatic, 305:124

hip, autograph shelf reconstruction and, **298:**60

osteofibrous, adamantinoma and, **309**:234 Dysplasia epiphysealis hemimelica, **307**:103 Dystrophic neurofibromatosis, **300**:38

E

Elbow

allograft, failed total elbow arthroplasty and, 303:135

ankylosis, treatment by joint transplantation, 303:4

articular cartilage, biomechanics, **299:**305 range of motion, static progressive stretch and, **303:**128

Elderly, total knee arthroplasty and, **299:**77 Electromagnetic fields, bone grafting following bone tumor resection and, **306:**213

Embolism, pulmonary, acetabular and pelvic fracture surgery and, 305:133

Emergent carpal tunnel release, **300:**141 Endoprosthesis, total hip replacement, gelatinase/ type IV collagenase and, **306:**136

Epidural analgesia, postoperative, total knee arthroplasty and, 299:44

Epiphysial plate defects, surgical, healing, 300:264

Etretinate, heterotopic bone formation and, 308:139

Evoked potential monitoring, intraoperative, acetabular surgery and, 305:160

Exercise, early postoperative ankle, 300:193

Extensor hallucis brevis tendon, transfer, 308:43 Extensor mechanism

cruciform repair, knee function and, 302:138 reconstruction after total knee arthroplasty, 303:79

External fixation, Monticelli-Spinelli, mechanical performance, 309:257

External fixators, circular, radiotransparent, 308:68

Extremities, allografts, 307:200

F

Fascia lata allograft, reconstruction of anterior cruciate defects and, 303:56

Femoral artery, superficial, pseudoaneurysm, **306:**171

Femoral components

hydroxyapatite-coated, porous, and cemented, third-body wear, 298:11

loosening, wear debris and, 298:137

Mallory-Head, 298:37

modular total hip, 298:184

Omniflex modular, 298:54 simulated knee wear and, 309:176

Femoral epiphysis, avascular necrosis, 304:172

Femoral forces, limb lengthening and, 301:55

Femoral head

autograft

congenital hip dislocation and, 298:3 dysplastic hip and, 298:60

avascular necrosis, 301:191, 306:17 prognostication, 303:155

osteonecrosis, 305:190, 308:127

prosthetic, postoperative dislocations, 301:196

Femoral implants, cementless, bone density after remodeling, 305:178

Femoral intramedullary pressure, cemented hip replacement and, **302**:297

Femoral lengthening

callus distraction and cortical apposition and, 309:222

knee range of motion and, 301:49 reactive forces and, 301:64

Femoral morphometry, anterior knee pain and, 302:64

Femoral neck

anteversion in ballerinas, 302:57

fracture

Bateman bipolar hemiarthroplasty and, 302:75

displaced, magnetic resonance imaging and, 298:191

Femoral nerve palsy, total hip arthroplasty and, 304:165

Femoral osteoarticular allograft, 303:103

Femoral osteotomy, internal fixation, absorbable plugs and, 298:277

Femoral prostheses

cemented proximal, 298:67

failure

fixation, 306:73

total hip arthroplasty and, 298:119

Femoral revision surgery, cemented, long-term results, 299:190

Femoral torsion, 302:52

Femoral transplantation, distal, experimental, 303:18

Femur

condyle width, estimation in osteochondral allograft, 298:246

cortical bone density, cementless total hip arthroplasty and, 306:145

deficient, total hip arthroplasty and, **298:**119 deformity, fixed rotational, **302:**69

distal replacement

frozen allograft, 303:95

hydroxyapatite-coated, 302:92

fracture

basicervical, 306:256

ipsilateral knee injury and, 300:178 rotational deformity and, 302:27

osteonecrosis, osteoarticular allograft and,

segmental loss, total hip arthroplasty and,

subtrochanteric derotation osteotomy, 302:111

Fentanyl, postoperative epidural analgesia and, 299:44

Fibrodysplasia ossificans progressiva heterotopic ossification and, 301:243

radiographic and scintigraphic features, **304:**238

traumatic heterotopic bone fracture and, **308:**173

Fibroma, desmoplastic, allograft bone in treatment, 300:219

Finite element analysis, 301:42

bone density after remodeling around cementless femoral implants and, 305:178

Fistula, arteriovenous. See Arteriovenous fistula Foot, superficial peroneal nerve, surgical anatomy, **305:**229

Foot drop, total hip arthroplasty and, lumbar decompression and, 303:173

Foot surgery, psoriasis and, 300:201

Forearm, axis of rotation, interosseus membrane and, 298:272

Forearm bone diaphyseal plating, 299:256

acetabular. See Acetabulum, fracture blister, 307:214 callus

osteopetrosis and, 308:85

Type X collagen and, 308:220

capitellum, Herbert screw fixation, 300:123

clavicle, incidence, 300:127

coracoid process, 300:120

diaphyseal, forearm bone plating and, 299:256 distal tibial pilon, 298:221

femoral

basicervical, 306:256

ipsilateral knee injury and, 300:178 rotational deformity and, 302:27

femoral neck

Bateman bipolar hemiarthroplasty and, **302:**75

displaced, magnetic resonance imaging and, 298:191

glenoid, shoulder arthroplasty and, **307:**47 healing, weight bearing and, **302:**273

heterotopic bone, traumatic, 308:173

hip, intracapsular, 302:83

humeral

proximal, open reduction and internal fixation, 299:244

shoulder arthroplasty and, 307:47

iliac bone graft harvest site, **309:**208 internal fixation, absorbable plugs and, **298:**277

Jones, 299:252

lateral malleolar, postoperative, 300:193

lateral tibial avulsion, anterior cruciate ligament and, **303:**193

lower-extremity, perioperative cultures and, 302:206

mallet finger, treatment by tension band technique, 300:133

micromovement, vascular response, 301:281 patellar, posterior stabilized knee arthroplasty and, 299:131

pelvic

management, 305:69 prevention of surgical complications, 305:133

stabilization, 307:222

posterior process of talus, medial subtalar dislocation and, 303:226 scapular, missed after trauma, 299:259 supracondylar, open reduction, 302:194 thoracolumbar spine, anterior decompression

and, 300:16

tibial

flexion-type Salter II, 301:256 nonunions, 302:189 salvaged, 301:227 soft tissue injury and, 304:222 tibial condyle, surgical treatment, 302:199 vertebral, anterior surgery and, 300:79

Fracture-table positioning, compartment syndrome and, 301:239

G

Gait, amputee, below-knee, 303:185 Gamma nail, biomechanical analysis, 304:280 Gangrene, gas, Clostridium septicum, 308:178 Gas gangrene, Clostridium septicum, 308:178 Gastroc-soleus contracture, cerebral palsy and, 301:249

Gelatinase, total hip replacement endoprostheses and, 306:136

Gender, femoral condyle width and, 298:246 Genes, 306:264

expression, regulation, 306:264

Genetic code, 306:264

Genetic recombination, 306:264

Gentamicin, periprosthetic hip infection and, 298:97

Giant cell tumor, bone, pulmonary metastasis, 302:219

Glenohumeral arthritis, imaging techniques and,

Glenohumeral arthroplasty, imaging techniques and, 307:7

Glenohumeral dislocation, posterior, recurrent, 308:98

Glenohumeral joint, translation, 309:193 Glenohumeral joint capsule, immobilization and,

Glenohumeral subluxation, computer simulation, 306:28

Glenoid

fracture, shoulder arthroplasty and, 307:47 retroversion, 308:98

Glenoid component, total shoulder arthroplasty and, 307:86

Gluteus maximus, gas gangrene, 308:178

Grafting. See Bone grafting

Granular tricalcium phosphate grafting, 306:197 Granulomatous osteomyelitis, 308:183

Granulomatous periprosthetic lesions, cemented hip arthroplasty and, 300:155

Growth factors, ligament healing and, 308:207 Growth plate matrix vesicle biogenesis, 306:222

H

HA. See Hydroxyapatite

Hallux valgus, Keller-Lelievre technique and, 308:43

Hallux varus, acquired, operative treatment, 306:183

Hand, small joints, compression arthrodesis, 304:116

Hand muscle, anomalous, 306:120

Hannover Polytrauma Score, 305:69

Harris hip score, 298:60, 156, 202, 299:212, **300:**147, **303:**147, **304:**139

Health care reform, impact on orthopaedic surgery, 308:271

Health factors, locomotor complaints in middle age and, 308:264

Heel-pad compressibility, 300:197

Height, femoral condyle width and, 298:246 Hemangioma

intracortical, 302:235

pelvic, acetabular protrusion and, 306:209 surface-based of bone, 300:233

Hematogenous osteomyelitis, 302:231

Hemiarthroplasty

Bateman bipolar, femoral neck fracture and, 302:75

shoulder, modular, 307:18

Hemiarthrosis, experimental, joint stiffness and synovial histology and, 303:280

Hemivertebrectomy, 300:38

Hemodialysis, chronic shoulder pain and, 304:91

Hepatitis B, allograft safety and, 303:8

Hepatocellular carcinoma, metastatic, bone and, 303:237

Herbert screw fixation, 300:123

Herniated thoracic disk, surgical treatment, 300:70

Heterotopic bone

formation, etretinate-induced, 308:139

fracture, traumatic, 308:173

Heterotopic ossification (HO)

fibrodysplasia ossificans progressiva and, 301:243

operative treatment of acetabular fracture and, 305:88, 96

High tibial osteotomy (HTO), failed, total knee arthroplasty and, 299:125

Hip

anatomic medullary locking prosthesis, **298**:89 arthroplasty. *See* also Total hip arthroplasty mentally impaired patient and, **308**:146

articulated distraction, 301:94

artificial in bony anchylosis, 298:4

avascular necrosis, 307:124

steroid-induced, 303:147 congenital dislocation, femoral head autograft and, 298:3

dysplastic, autograph shelf reconstruction and, 298:60

etretinate-induced heterotopic bone formation and, 308:139

fracture, intracapsular, 302:83

fusion, young adults and, 300:147

implants. See Hip implants

joint capsule, degenerative arterial change, 301:191

medialization/lateralization, postoperative sciatic/femoral nerve palsy and, 304:165

modified Harris rating system, 298:60 osteoarthritis, progressive migration in bipolar arthroplasty and, 304:156

pain, 305:293, 308:281

prostheses. See Hip prostheses

replacement. See also Total hip replacement tripolar, 304:148

stems, modular, 298:27

Hip implants

failure, immuno-incompetent fibroinflammatory zone and, 298:106

infected

gentamicin and, 298:97 surgical treatment, 298:75

Hip prostheses

alumina-alumina, 298:175

dislocation, tripolar hip replacement and, 304:148

failed cemented and cementless, comparison of interface membranes, 309:69

head-neck taper interface, 300:162

Infinity, 298:27

Lubinus, survival, 303:140

Mallory-Head, 298:37

RMHS, 298:27

S-ROM, 298:27, 67

total, peri-implant zone of osteolysis and loosening, **298**:106

Histogenesis, distraction, 301:2

HIV. See Human immunodeficiency virus

HO. See Heterotopic ossification

HTO. See High tibial osteotomy

Human immunodeficiency virus (HIV), allograft safety and, 303:8

Humeral component, total shoulder arthroplasty and, 307:86

Humeral head, articular replacement, 307:3

Humerus, fracture

shoulder arthroplasty and, 307:47

proximal, open reduction and internal fixation, 299:244

Hydroxyapatite (HA)

bone formation and, 304:272

crystals, intramedullary deposits in rheumatoid arthritis, 298:240

distal femoral replacements and, 302:92

osteoconductive properties, 298:11

total hip arthroplasty and, 298:2

particulate separation and, 298:19

I

Idiopathic scoliosis, 300:38

Ilioinguinal approach, 305:10

Iliopsoas tendon, displacement, total hip arthroplasty dislocation and, 306:132

Ilizarov apparatus

stiff hypertrophic nonunions and, **301**:159 torsional deformity and, **302**:36

Ilizarov method, 301:19, 55, 308:68

ankle fusion and, 303:217

correction of neglected clubfoot and, 301:89

deformity secondary to metabolic bone disease and, 301:38

lengthening of below elbow amputation stump and, 306:124

limb salvage and, cost comparison, 301:156 lower-extremity deformities and, 301:102 segmental tibial defects and, 301:118

Imaging, bone lengthening and, 308:50

Immobilization, glenohumeral joint capsule and, 304:37

Immuno-incompetent fibro-inflammatory zone, 298:106

Implant arthroplasty, first metatarsophalangeal joint, 302:164

Infection

bone allograft, 306:46

hip implant

gentamicin and, 298:97 surgical treatment, 298:75

intervertebral, Streptococcus milleri and, 302:183

low-back fusion and, 306:5

metatarsophalangeal joint, 307:174

revision joint arthroplasty and, 304:229 shoulder arthroplasty and, 307:47

tibial nonunions and, 301:139

total hip arthroplasty and, two-stage reimplantation protocol and, 301:205

total knee arthroplasty and, **299:**163, 169 treatment with insertion of new prosthesis,

309:44 upper extremity, compartment syndrome and, 306:128

Infinity prosthesis, 298:27

306:163

Insulin-like growth factor Type 1, ligament healing and, 308:207

Interbody fusion and instrumentation, **300:90** Intercondylar roof, topographical anatomy,

Interface membranes, comparison, 309:69

Interosseus membrane, axis of rotation of forearm and, 298:272

Interscalene block, pain relief after shoulder surgery and, 304:22

Intervertebral disk, titanium-mesh block replacement, 300:52

Intervertebral infection, Streptococcus milleri and, 302:183

Intraarticular fibrous bands, total knee arthroplasty and, 309:230

Intracapsular chondroma, 303:231

Intracortical hemangioma, 302:235

Intramedullary fixation, percutaneous, long bone deformity and, 305:242

Intramedullary supracondylar rod, 302:194

Intraoperative evoked potential monitoring, acetabular surgery and, 305:160

Intraosseus pressure, femoral head osteonecrosis and, 308:127

Irradiation, bone grafting and, 300:207

J

Joints

defects

biologic resurfacing, 300:288 cartilage, reconstruction, 302:259 distention, shoulder disease and, 304:25 fluid, total joint arthroplasty and, 307:240 posttraumatic stiffness, diuretics and, 302:284 replacement. See Total joint replacement

torsion and, 302:11 Jones fracture, 299:252

K

Keller-Lelievre technique, 308:43 Knee

arthrosis, patterns, 309:56 below stump reconstruction, 307:229

braces, comparison, 303:203 congenital recurvatum, neglected bilateral, 303:198

diffuse pigmented villonodular synovitis diagnostic features, **298:**212 surgical treatment, **300:**183

disease, formation of synovial cysts and, 299:2

elastic fibers, age-related distribution, **308**:33 flexion contracture, mechanical distraction and, **301**:80

function after patellectomy, **302:**138 immobilized, sodium hyaluronate and, **299:**282

innervation, implications for surgery, **301**:221 instability, total knee arthroplasty and, **299**:157

ipsilateral injury, femoral fracture and, **300:**178

laxity in symptomatic osteoarthritis, **304:**184 medial meniscal cyst, **304:**190 osteoarthritis

carbon fiber scaffolds and, 307:155 patellofemoral joint and, 304:176

osteoarthrosis

knee arthroplasty and osteotomy, **302:**134 tibial torsion and, **302:**52

pain, 309:274

femoral morphometry and, **302:**64 pathology, tibial torsion and, **302:**47 prostheses, failed, comparison of interface membranes, **309:**69

range of motion, femoral lengthening and, 301:49

reconstructed, anterior cruciate ligament, **307:**165

replacement. See also Total knee replacement laxity and function, 305:200 tricompartmental, 305:209 simulated wear, 309:176 subchondral tumors, treatment, 307:189 unicompartmental arthroplasty. See

Unicompartmental knee arthroplasty

L

Lacertus fibrosus, brachial artery compression and, 307:110

Laminectomy, 300:70

Large segmental bone defects (LSBDs), monolateral external distractors and, 298:259

Lateral malleolus, fracture, postoperative, **300:**193

LCPD. See Legg-Calve-Perthes disease Legg-Calve-Perthes disease (LCPD), avascular necrosis and. 298:199

Lacione

cavitary of bone, granular tricalcium phosphate grafting and, **306**:197 periprosthetic, granulomatous, **300**:155 Letters to editor, **303**:289, **305**:295, **306**:286,

307:282, 308:284, 309:277

Ligament healing

growth factors and, 308:207 nerve injury and, 307:255

Limb compartments, quantitative hardness, 300:248

Limb lengthening, 301:4

arteries, veins, peripheral nerves and, 308:54 in children, femoral forces and, 301:55 complications, 301:10 effect on articular cartilage, 301:68 femoral

knee range of motion and, 301:49 reactive forces and, 301:64

marrow-enhanced, 303:250

postoperative sciatic and femoral nerve palsy and, 304:165

tibial, predictors of healing, 301:73 variables affecting time to bone healing, 301:31

Limb salvage, cost comparison, 301:156 Limb swelling, posttraumatic, diuretics and, 302:284

Lithotomy position compartment syndrome, fracture-table positioning and, 301:239

Liver transplantation, metastatic hepatocellular carcinoma to bone and, 303:237

Locomotor complaints, prevalence in middle age, 308:264

Long bone deformity, percutaneous intramedullary fixation, 305:242

Low-back fusion, complications, 306:5

Low-back outcome score, 300:30

Low-back pain, percutaneous diagnostic stabilization, **304:**130

Lower extremity

deformity, Ilizarov method and, **301**:102 fracture, pediatric, perioperative cultures and, **302**:206

torsion, embryology, **302:**17 vascularized fibular grafting and, **303:**178

LSBDs. See Large segmental bone defects Lubinus hip prosthesis, survival, 303:140

Lubinus hip prosthesis, survival, 303:140 Lumbar decompression, foot drop after hip arthroplasty and, 303:173

Lumbar diskectomy, fusion and, 301:177 Lumbar fusion, anterior, 300:30

options, 300:45

Lumbar spine, posterolateral arthroscopic diskectomy, 304:122

Lumbosacral spondylolisthesis, reduction, 300:64

M

MACTAR index, 298:156

Magnetic resonance imaging (MRI)

acute turf toe and, 304:200

anterior cruciate ligament tear and, 302:147 displaced femoral neck fracture and, 298:191 femoral head osteonecrosis and, 305:190,

308:127

patellofemoral disorders and, 308:18 shoulders of hemodialyzed patients and, 304:91

Mallet finger fracture, treatment by tension band technique, **300:**133

Mallory-Head prosthesis, 298:37

Matrix vesicle biogenesis, 306:222

McLaughlin procedure, 304:54

Mechanical distraction, knee flexion contractures and, 301:80

Mechanical forces, healing during tibial lengthening and, **301:7**3

Mechanical strain, bony ingrowth promotion and, 298:165

Mechanoreceptors, anterior cruciate ligament, 308:29

Medial displacement osteotomy, 300:147

Medial meniscal cyst, 304:190

Medial meniscus, repair, 307:165

Medial subtalar dislocation, 303:226

Median neuropathy, wrist trauma and, 300:141

Medical education, graduate in United States, 306:103

Medullary nail fixation, 301:147

Melioidosis, 308:183

Meniscal transplantation, allograft, 303:44

Meniscectomy, 307:165

Meniscus

acute torn, 307:146

bovine, shear properties, 306:34

collagen synthesis and, 303:256

functions, 303:44

medial, repair, 307:165

transplantation, failed, 306:155

Menisectomy, 303:44

Metabolic bone disease, deformity secondary, Ilizarov method and, 301:38

Metalosis, 298:19

Metastasis, pulmonary, giant cell tumor of bone and, 302:219

Metastatic hepatocellular carcinoma, bone and, 303:237

Metatarsophalangeal joint

first, implant arthroplasty and, 302:164 septic hallux, salvage, 307:174

Methotrexate (MTX), effects on vascularized bone grafts, 301:291

Microcarriers, growth on bone cells and, 300:254 Middle age, locomotor complaints and, 308:264

Modular heads, surface roughness, 298:11

Modular interfaces, wear and corrosion, 298:80

Modularity, total hip arthroplasty and, 298:27

Modular shoulder hemiarthroplasty, **307:**18 Modular total shoulder replacement, **307:**37

Molded arthroplasty, 308:43

Molecular biology, 306:264

Monolateral external distractors, large segmental bone defects and, 298:259

Monolayers, growth on bone cells and, **300:**254 Monticelli-Spinelli external fixation system,

mechanical performance, 309:257 Morphometry, femoral, anterior knee pain and,

302:64 Morscher anterior cervical locking plate, **300:**79

Morse taper, 300:162

MRI. See Magnetic resonance imaging

MTX. See Methotrexate

Mueller total hip arthroplasty, periprosthetic bone mineral density and, 309:214

Muscle, interaction with bone, 302:266

Musculoskeletal injury, quality-based management, 301:164

Musculotendinous cuff, lesions, 304:3

Mutation, 306:264

Myelopathy, natural course, 305:168

Myonecrosis, Clostridial, 308:178

N

Necrosis, avascular. See Avascular necrosis Nerve injury

external fixation and, somatosensory evoked potential evaluation, 308:254

ligament healing and, 307:255

shoulder arthroplasty and, 307:47

Nerves, peripheral, limb lengthening and, 308:54 Neurofibromatosis, dystrophic, 300:38

Neuromuscular scoliosis, 300:38

Neuropathy, median, wrist trauma and, 300:141

Nonsteroidal antiinflammatory drugs (NSAIDs), systemic bone changes and, **298**:250

NSAIDs. See Nonsteroidal antiinflammatory drugs

Nucleic acids, terminology, 306:264

0

OCD. See Osteochondritis dissecans
Omniflex modular femoral component, 298:54
Orthofix system, screw design and, 308:63
Orthopaedic implants, interactions with
osteoblasts, 304:258

Orthopaedics, study of history, 309:267

Orthopaedic surgery academic, 300:102

autologous shed blood and, 299:53 impact of health care reform, 308:271

Ossification

heterotopic

fibrodysplasia ossificans progressiva and, 301:243

operative treatment of acetabular fracture and, 305:88, 96

posterior longitudinal ligament and, 305:168 Osteoarthritis

hip, progressive migration in bipolar arthroplasty and, 304:156

imaging techniques and, 307:7

knee

carbon fiber scaffolds and, **307:**155 patellofemoral joint and, **304:**176 pathogenesis, **308:**79

symptomatic, knee laxity and, 304:184

Osteoarthrosis

experimental, effects of sodium hyaluronate, **298:**296

knee

arthroplasty and osteotomy and, **302:**134 tibial torsion and, **302:**52

Osteoarticular allograft, distal femoral osteonecrosis and, 303:38

Osteoblasts

embryonic, cultures, **308:**73 interactions with orthopaedic implants, **304:**258

Osteochondral allograft

articular defects in osteochondritis dissecans and, 303:33

estimation of femoral condyle width and, **298:**246

Osteochondral defects, repair with grafts of cultured chondrocytes, 302:251

Osteochondritis dissecans (OCD), 299:305 articular defects and, 303:33

Osteofibrous dysplasia, adamantinoma and, 309:234

Osteogenesis

bone morphogenetic protein-induced, cell function and, 298:305

distraction. See Distraction osteogenesis
Osteogenesis imperfecta, long bone deformity
and. 305:242

Osteoid osteoma, **299:**209 acetabular, **304:**204 coracoid process and, **301:**260

Osteolysis

polyethylene debris and, **298:**137 porous-coated cementless total hip arthroplasty and, **308:**111 tibial, cementless total knee arthroplasty and, 309:33

uncemented hip sockets and, **298**:202 wear debris-induced, **299**:104

Osteomyelitis

chronic, management, 298:229

granulomatous, 308:183

hematogenous, 302:231

hematogenous Salmonella typhi, 308:187

Osteonecrosis

femoral, osteoarticular allograft and, **303**:38 femoral head, **305**:190, **308**:127 renal transplantation and, **299**:212

Osteopetrosis, fracture callus and, 308:85

Osteoporosis, alfacalcidol and calcium and, 300:241

Osteosarcoma

periosteal sunburst spiculation and, 308:213 pseudocapsule cells, 300:225

Osteotomy

failed tibial, total knee arthroplasty and, 299:125

internal fixation, absorbable plugs and, 298:277

medial displacement, **300**:147 subtrochanteric derotation, **302**:111 tibial

anterior cruciate reconstruction and, **229:**220

osteoarthrosis of knee and, **302:**134 Oxidized zirconium femoral components,

Oxidized zirconium femoral components, simulated wear, **309:**176

Oximetry, transcutaneous, **304:**222
Oxygen scavengers, simple bone cysts

Oxygen scavengers, simple bone cysts and, 308:199

P

Pagetic bone, vascularity, **306:**247 Pain

ankle, **306:**284

anterior decompression and, 300:16 hip, 305:293, 308:281

interscalene block and, 304:22

knee, 309:274

femoral morphometry and, **302**:64 low-back, percutaneous diagnostic stabilization, **304**:130 perioperative, management, **305**:283

plantar heel, **306:**192 shoulder, hemodialysis and, **304:**91

wrist, 307:280

Palsy, sciatic and femoral nerve, total hip arthroplasty and, 304:165

Paraarticular chondroma, 303:231

Paralysis, anterior decompression and, 300:16

Paraplegia, Pott's, 300:16

Patella

bipartite, painful in athletes, 305:223 dislocation, recurrent, 308:8

fracture, posterior stabilized knee arthroplasty and, 299:131

subluxation, patterns, 309:56

Patella baja, anterior cruciate ligament reconstruction and, 299:229

Patellar *clunk syndrome, total knee arthroplasty and, 299:139

Patellar total knee components, comparison of contact pressures, 299:104

Patellar tracking

three-dimensional, influence of soft structures, 299:235

total knee arthroplasty and, 304:263

Patellectomy, knee function and, 302:138

Patellofemoral joint

disorders, radiologic measurements, 308:18 osteoarthritic knee and, 304:176

Patellofemoral shear, total knee arthroplasty and, 309:124

Patellofemoral subluxation, computer simulation, 306:28

PAX genes, 302:239

expression and development of vertebral column, 302:241

PCA hip replacement, 298:37

PCA tibial components, 299:18

PDGF. See Platelet-derived growth factor

Pedicle latissimus dorsi transfer, 309:201

Pediculofacetectomy, 300:70

Pelvic external fixator pin, placement, **302:**213 Pelvis

allografts, 307:200

anteroposterior compression injury, biomechanical simulation, 309:245

fracture

management, 305:69

prevention of surgical complications, 305:133

stabilization, 307:222

hemangioma, acetabular protrusion and, **306:**209

primary bone sarcomas, oncologic outcomes, **304:**207

three-dimensional computed tomography and, 305:138

vascularized fibular grafting and, **303:**178 Perichondral grafting, **302:**259

Perioperative culture, pediatric lower-extremity fracture and, 302:206

Perioperative pain, management, 305:283

Periosteal chondrogenesis, enhancement in vitro, 301:271

Periosteal grafting, 302:259

Periosteal sunburst spiculation, osteosarcoma and, 308:213

Periosteum, cryopreserved allogeneic, **300**:288 Peripheral nerves, limb lengthening and, **308**:54 Peroneal arteriovenous fistula, formation after blunt trauma, **304**:216

Peroneal nerve, superficial, surgical anatomy, 305:229

Pes planus, plantar heel pain and, 306:192

PGA. See Polyglycolic acid

Pigmented villonodular synovitis (PVS), **298:**212 sequestered suprapatellar bursa and, **306:**204

Pivot shift, treatment, 299:298

Plantar flexion injury, ankle, 306:97

Plantar heel, pain, 306:192

Platelet-derived growth factor (PDGF), ligament healing and, 308:207

Plexus brachialis, reconstruction, pedicle latissimus dorsi transfer and, 309:201

PLIF. See Posterior lumbar interbody fusion

PLLA. See Poly-L-lactic acid

Polydioxanone, internal fixation of femoral osteotomy and, 298:277

Polyethylene

bearings, tibial, fusion defects and damage, **299:**92

debris, osteolysis and, 298:137

inserts, tibial, wear patterns, 299:31

ultra high molecular weight, 309:20

wear

total knee arthroplasty and, 299:60, 309:11 unicompartmental knee arthroplasty and, 299:18

Polyglycolic acid (PGA), internal fixation of femoral osteotomy and, 298:277

Poly-L-lactic acid (PLLA), internal fixation of femoral osteotomy and, 298:277

Polymethylmethacrylate, total hip arthroplasty and, 298:2

Posterior cruciate ligament, total knee arthroplasty and, 309:64, 88

Posterior longitudinal ligament, ossification, 305:168

Posterior lumbar interbody fusion (PLIF), 300:90 Pott's disease. 300:16

Pott's paraplegia, 300:16

Primary Charnley low friction arthroplasty femoral prosthesis fixation failure and, **306:**73 radiologic failure of socket and, **306:**84 Prosthesis

femoral. See Femoral prostheses hip. See Hip prostheses

knee. See Knee prostheses shoulder, bipolar, **304:**97

303:170

Proteases, cartilage homeostasis and, **308:**79 Protein S deficiency, perioperative management,

Proteoglycan synthesis, extracts of demineralized bone and, 299:263

Pseudoaneurysm

formation after blunt trauma, **304:**216 superficial femoral artery, **306:**171

Pseudoarthrosis, low-back fusion and, **306:5** Pseudocapsule cells, **300:**225

Pseudothrombophlebitis syndrome, **308:**251 Psoriasis, foot and ankle surgery and, **300:**201

Pulmonary embolism, acetabular and pelvic fracture surgery and, **305**:133

Pulmonary metastasis, giant cell tumor of bone and, 302:219

PVS. See Pigmented villonodular synovitis

0

QCT. See Quantitative computed tomography Quantitative computed tomography (QCT), distraction osteogenesis and, **301**:42

R

Radial sensory nerve, **308**:241 Radiation therapy, bone grafting and, **300**:207 Radiography

bone lengthening and, 308:50 fibrodysplasia ossificans progressiva and, 304:238

Radiology, patellofemoral disorders and, **308:**18 Radiotransparent circular external fixators, **308:**68

Radius, hematogenous osteomyelitis, 308:187

Range of motion (ROM)

elbow, static progressive stretch and, 303:128 knee, femoral lengthening and, 301:49

Reactive forces, femoral lengthening and, **301:**64 Reconstructive surgery, periosteal and

perichondral grafting and, **302:**259 Rehabilitation, total shoulder arthroplasty and, **307:**70

Reimplantation, two-stage, infected total hip arthroplasty and, 301:205

Renal transplantation, total hip arthroplasty and, 299:212

Resins, negatively charged, subperiosteal bone formation and, 298:266

Resistant frozen shoulder, arthroscopy and, 304:30

Retinoids, heterotopic bone formation and, 308:139

Revision arthroplasty

cemented Charnley, 303:165

imaging techniques and, 307:7 indications, 298:11

infection and, 304:229 shoulder, 307:47

Rheumatoid arthritis

imaging techniques and, 307:7 intramedullary deposits of hydroxyapatite

crystals, 298:240 synovial pannus formation and, adhesion molecules and, 300:297

systemic bone changes and, 298:250 unconstrained shoulder arthroplasty and, 307:94

Rice bodies, subacromial bursitis and, **301:**185 RMHS prosthesis. **298:**27

RNA polymerases, 306:264

RNA processing, 306:264

RNA transcripts, 306:264

ROM. See Range of motion

Rotational deformity

femur fractures in children and, 302:27 fixed of femur, 302:69

Rotationplasty, superficial femoral artery pseudoaneurysm and, 306:171

Rotator cuff

disease

coracoacromial ligament and, 304:10 determinants of outcome in treatment, 308:90

lesions, shoulder instability and, **304:**84 repair, functional and anatomical results, **304:**43

ruptures, fatty muscle degeneration and, 304:78

tears

imaging techniques and, 307:7 incomplete, 306:12 intratendinous, 304:60 joint side, 304:68 results of repair, 304:54 shoulder arthroplasty and, 307:47

S

Salmonella typhi, hematogenous osteomyelitis of radius and, 308:187

Sarcoma

alveolar soft-part, clinical presentation, **300:**213

primary of pelvis, oncologic outcomes, 304:207

Scanograms, patellofemoral disorders and, 308:18

Scapula, fracture, missed after trauma, **299**:259 SCFE. *See* Slipped capital femoral epiphysis Sciatic nerve palsy, total hip arthroplasty and, **304**:165

Scintigraphy

femoral head osteonecrosis and, **308:**127 fibrodysplasia ossificans progressiva and, **304:**238

Scoliosis, anterior surgery and, **300**:38 SEP monitoring. *See* Somatosensory evoked potential monitoring

Sepsis. See Infection

Septic hallux metatarsophalangeal joint, salvage. 307:174

Shoulder

arthroplasty. See also Total shoulder arthroplasty bipolar, 304:97 complications, 307:47 revision, 307:47

unconstrained, rheumatoid arthritis and,

cuff ruptures, fatty muscle degeneration and, 304:78

disease, joint distention and, 304:25 dislocation, primary anterior, 304:74 fracture/dislocation/rupture, 300:120 hemiarthroplasty, modular, 307:18 instability, rotator cuff lesions and, 304:84 isolated nerve injuries, 306:54

joint capsule, nerve distribution, 305:273 normal, rotational strength and, 304:108 pain, hemodialysis and, 304:91 prosthesis, bipolar, 304:97 resistant frozen, arthroscopy and, 304:30 surgery, pain relief, 304:22 total replacement, modular, 307:37 trauma, arthroplasty and, 307:27 houlder impingement syndrome, 303:242

Shoulder impingement syndrome, 303:242 rotational strength and, 304:108 Sickness impact profile (SIP), 298:156

SIP. See Sickness impact profile

Six-minute walk, 298:156

Skeletal defects, segmental, 301:111

Skin colonization, total knee arthroplasty and, 299:163

Skull defects, induced repair in pigs, 301:263 SLE. See Systemic lupus erythematosus Sliding hip screw, biomechanical analysis, 304:280

Slipped capital femoral epiphysis (SCFE), traction reduction, 302:101

Smoking, locomotor complaints in middle age and, 308:264

Socioeconomic factors, locomotor complaints in middle age and, 308:264

Sodium hyaluronate

effects on experimental osteoarthrosis, **298:**296

immobilized rabbit knee and, 299:282

Soft tissue injury, open tibial shaft fracture and, 304:222

Somatosensory evoked potential (SEP) monitoring

acetabular fractures and, 301:213

acute nerve injury associated with external fixation and, 308:254

Spinal deformity, fixed decompensated, 306:64 Spinal fusion

anterior, 300:16

canine model, human bone morphogenetic protein-2 and, 308:229

free periosteal grafts and, 302:259

iliac bone graft harvest site fracture and, 309:208

Spinal tuberculosis, surgical management in adults, **302:**173

Spondylolisthesis

lumbosacral, reduction, **300:**64 traumatic of C2, **300:**79

S-ROM prosthesis, 298:27, 67

Staged arthrodesis, 307:174

Stair ambulation, below-knee amputee gait and, 303:185

Static progressive stretch, 303:128

Steroids, avascular necrosis of hip and, 303:147 Stinchfield, Frank E., 298:8, 306:2

Streptococcus milleri, intervertebral infection and, 302:183

Subacromial bursitis, rice bodies and, 301:185 Subchondral tumors, treatment, 307:189 Subluxation

glenohumeral/patellofemoral, computer simulation, 306:28

patellar, patterns, 309:56

Subtrochanteric derotation osteotomy, **302:111** Superficial femoral artery, pseudoaneurysm,

306:171

Superficial peroneal nerve, surgical anatomy, **305:**229

Supracondylar fracture, open reduction, **302:**194 Suprapatellar bursa, pigmented villonodular synovitis and, **306:**204

Supraspinatus tendon, tears, 304:18

Surgical instrumentation, total knee arthroplasty and, **299**:179

Swab cultures, allograft procurement and, 300:259

Synovial cysts, formation, knee disease and, 299:2

Synovial fluid, polyethylene wear particles and, 309:11

Synovitis

diffuse pigmented villonodular of knee diagnostic features, 298:212 surgical treatment, 300:183 pigmented villonodular, sequestered suprapatellar bursa and, 306:204

Systemic lupus erythematosus (SLE), osteonecrosis of femoral head and, 305:190

Т

Talus, fracture of posterior process, medial subtalar dislocation and, 303:226

TARA. See Total articular replacement arthroplasty

TEA. See Total elbow arthroplasty Tendinopathy, Achilles, blood flow and, 308:166

Tendoachilles contracture, 301:249

Tendon growth, 307:235

Tension band technique, mallet finger fracture and, 300:133

TGF. See Transforming growth factor THA. See Total hip arthroplasty

Thoracic disk, herniated, surgical treatment,

Thoracic fusion, 300:38

Thoracic spine, posterolateral arthroscopic diskectomy, 304:122

Thoracolumbar spine

anterior approaches, complications, **306:**110 fracture, anterior decompression and, **300:**16

Thoracophrenolumbotomy, **300:**38 THR. *See* Total hip replacement

Thromboembolic disease, venous, total hip arthroplasty and, 299:203

Thromboembolism, low-back fusion and, **306:5** Thrombosis

deep vein. See Deep vein thrombosis ulnar artery, 306:120

Tibia

defects

infected, closing, 306:175 segmental, 301:118

total knee arthroplasty and, management, 305:249

fracture

condyle, surgical treatment, 302:199

flexion-type Salter II, **301**:256 intraarticular pilon, **298**:221

lateral avulsion, anterior cruciate ligament and, 303:193

nonunions, 302:189

open shaft, soft tissue injury and, **304:**222 salvaged, **301:**227

lengthening, predictors of healing, 301:73

osteolysis, cementless total knee arthroplasty and, 309:33

proximal, replacement with frozen allograft, 303:95

resected, analysis of bone surface area, 309:2 Tibial components

bone surface area supporting, 309:2

fixation in total knee arthroplasty, 299:72

PCA, 299:18

total knee, comparison of contact pressures, 299:104

wear in total knee replacement, 309:29

Tibial inserts, polyethylene, wear patterns, 299:31

Tibial nerve, anomalous, 305:239

Tibial nonunions, chronic infected, bone loss and. 301:139

Tibial osteotomy

anterior cruciate reconstruction and, 229:220 failed, total knee arthroplasty and, 299:125

Tibial physis, proximal, asymmetrical closure, 307:142

Tibial plateau coverage, total knee arthroplasty and, 299:81

Tibial polyethylene bearings, fusion defects and damage, 299:92

Tibial polyethylene failure, total knee replacement and, 299:11

Tibial torsion, 302:4

knee joint pathology and, 302:47 osteoarthrotic knee and, 302:52

three-dimensional computed tomography reconstruction, 302:42

Tibial tropometry, 302:4

Tibiotalar arthrodesis, 303:217

Time trade-off, 298:156

Tissue, allograft, preparation and safety, 303:8

Titanium alloy hip replacement, plasma spray coating. 298:37

Titanium-mesh block replacement, 300:52 TKR. See Total knee replacement

development, normal and abnormal in children, 302:22

femoral, 302:52

impact on joints, 302:11

lower-extremity, embryology, 302:17

tibial. See Tibial torsion

Torsional deformity, Ilizarov apparatus and,

Total articular replacement arthroplasty (TARA), 300:168

Total elbow arthroplasty (TEA), failed, total elbow allograft and, 303:135

Total hip arthroplasty (THA), 298:2

bleeding and, 299:293

302:121

bone grafting and, 298:147

cementless

avascular necrosis and, 303:147

cemented versus, 298:156

cortical bone density of proximal femur and, 306:145

modular total hip femoral component, 298:184

porous-coated, osteolysis and, 308:111 compensation for muscle length changes and, dislocation, iliopsoas tendon displacement

deep vein thrombosis and, 299:25, 86, 203

and, 306:132

duplex ultrasonography and, 307:130 failed, cytokines and, 300:304

deficient femur and, 298:119

fixation with biodegradable devices, 306:250

foot drop and, lumbar decompression and, 303:173

granulomatous periprosthetic lesions and, 300:155

hip dysplasia and, 298:60

hip joint muscle recovery and, 302:115

hydroxyapatite particulate separation, complications, 298:19

implantation of oversized acetabular components, 298:127

infected, treatment with two-stage reimplantation protocol, 301:205

modularity, 298:27

Omniflex modular femoral components, 298:54

periprosthetic bone mineral density and, 309:214

postoperative prosthetic femoral head dislocations, 301:196

postoperative sciatic and femoral nerve palsy and, 304:165

protein S deficiency and, perioperative management, 303:170

reconstruction of segmental loss of proximal femur. 298:67

renal transplantation and, 299:212

uncemented and hybrid primary porous coated anatomic, 304:139

uncemented components, osteolysis and, 298:202

Total hip prosthesis, peri-implant zone of osteolysis and loosening, 298:106

Total hip replacement (THR), 298:19, 27 alumina-alumina, 298:175

cementless, 298:156

ceramic-UHMWPE combination. 298:175

endoprostheses, gelatinase/type IV collagenase and, 306:136

foreign body debris and, 298:137

modular interfaces, wear and corrosion. 298:80

polyethylene-metal combination, 298:175 porous-coated, 298:89

proximally modular noncemented, 298:47 titanium alloy, plasma spray coating, 298:37 Total joint arthroplasty, changes in joint fluid and, 307:240

Total joint replacement, wear debris, **298:**137 Total knee arthroplasty (TKA)

antibiotic effectiveness and, **299:**163 bilateral, **305:**218

one-stage versus two-stage, 309:94 safety of one-stage, 309:102

blood conservation and, tourniquet release and, 299:147

cementless, 309:185

effect of pegs and screws on bone ingrowth, 309:150

tibial osteolysis and, 309:33

cold compressive dressing and, 299:143 condylar

impact of modern technique on long-term results, 309:131

long-term survival analysis of posterior cruciate-retaining, 309:136

deep vein thrombosis and, 299:25, 86 elderly patients and, 299:77

extensor mechanism reconstruction and, 303:79

failed

amputation and, 299:173 analysis of membranes, 299:114 high tibial osteotomy and, 299:125 presenting as thigh mass, 303:211

infected, treatment, 299:169
insertion of new prosthesis and, 309:44
intraarticular fibrous bands and, 309:230
knee instability and, 299:157
management of tibial defects, 305:249
patellar *clunk syndrome and, 299:139
patellar fracture and, 299:131
patellar tracking and, 304:263
polyethylene wear and, 299:60, 309:11
posterior cruciate ligament and, 309:64, 88
postoperative epidural analgesia and, 299:44

resection specimen analysis of tibial coverage,

309:163 revision

allograft reconstruction and, 303:86 cemented long-stem, 309:116 noncemented, 309:110 nonconstrained implants and, 309:156 surgical instrumentation, 299:179 tibial component fixation and, 299:72 tibial inserts, wear patterns, 299:31 tibial plateau coverage and, 299:81

trochlear design and, 309:124

Total knee replacement (TKR) cementless, 309:185

components, comparison of contact pressures, 299:104

posterior cruciate supplementing, **309**:146 postoperative alignment, **299**:153 tibial component wear and, **309**:29 tibial polyethylene failure and, **299**:11

Total shoulder arthroplasty (TSA) rehabilitation and, 307:70 uncemented, 307:86

Traction reduction, slipped capital femoral epiphysis and, 302:101

Transcription, 306:264

Transcription factors, 306:264

Transcutaneous oximetry, 304:222

Transforming growth factor (TGF), periosteal chondrogenesis and, 301:271

Transfusion, autologous shed blood and, **299:**53 Translation, **306:**264

Trauma

missed scapular fracture and, **299:**259 peroneal arteriovenous fistula/pseudoaneurysm formation and, **304:**218

shoulder, arthroplasty and, 307:27 wrist, median neuropathy and, 300:141

Tricompartmental knee replacement, 305:209

Tripolar hip replacement, 304:148

Tropometry, tibial, 302:4

TSA. See Total shoulder arthroplasty Tuberculosis, spinal, surgical management in adults. 302:173

Tumors

ascending colon, gas gangrene and, 308:178 atlas, 307:182

bone

allograft reconstruction and, 303:116 distal femoral osteoarticular allografts and, 303:103

Chinese hamster ovary, bone formation and, 300:274

giant cell of bone, pulmonary metastasis, 302:219

subchondral, treatment, **307:**189 vertebral body, irradiation and, **300:**207

Turf toe, magnetic resonance imaging and,

304:200

U

UKA. See Unicompartmental knee arthroplasty Ulnar artery thrombosis, **306:**120

Ultrasonography, duplex, deep vein thrombosis and, 307:130

Unicompartmental knee arthroplasty (UKA), 301:233

osteoarthrosis of knee and, 302:134 polyethylene wear and, 299:18

United States

graduate medical education and, **306**:103 impact of health care reform on orthopaedic surgery, **308**:271

Upper extremity, infection, compartment syndrome and, 306:128

V

Vascularized bone graft (VBG), effects of methotrexate, 301:291 Vascularized fibular graft (VFG), twin-barrelled, 303:178

VBG. See Vascularized bone graft
Veins, limb lengthening and, 308:54
Venous thromboembolic disease (VTED), total
hip arthroplasty and, 299:203

Vertebral body tumors, irradiation and, **300:**Vertebral column, development, PAX gene expression and, **302:**Vertebral fracture, anterior surgery and, **300:**

VFG. See Vascularized fibular graft
VTED. See Venous thromboembolic disease

W

Wear debris, 298:137
osteolysis and, 299:104
Weight bearing, fracture healing and, 302:273
WOMAC osteoarthrosis index, 298:156
Wrist
pain, 307:280
trauma, median neuropathy and, 300:141

\mathbf{z}

Zielke instrumentation, 300:38
Z-osteotomy, femoral lengthening and, 309:222
Zweymueller total hip arthroplasty, periprosthetic
bone mineral density and, 309:214

Author Index-Volumes 298-309

A

Ables, BA, 303:128 Aboulafia, AJ, 307:189 Aglietti, P, 307:165, 308:8 Ahl, T, 300:193 Ahmad, S, 308:90 Aho, AJ, 307:200 Aho, HJ, 302:266 Ahonen, A, 307:200 Aldegheri, R, 301:94 Alfaro, C, 298:259 Alhopuro, S, 302:259 Alicea, JA, 299:131, 229 Allard, RN, 300:281 Allardyce, TJ, 307:37 Allen, DI, 305:209 Alonso, JE, 305:81 Alvarez-Ruiz, F. 307:182 Ames, PRJ, 308:79 Ammeen, DJ, 309:33 Amstutz, HC, 304:148, 306:132 An, CH, 304:10 Andreychik, D, 308:90 Andrish, JT, 303:256 Anger, DM, 303:217 Anglen, J. 301:239 Annan, IH, 302:83 Anthony, M, 309:176 Antonaides, S. 299:125 Anzel, SH, 302:69 Aprin, H, 309:222 Arima, J, 298:184 Armstrong, P, 302:206 Aro, HT, 307:200 Aronson, J, 301:2, 25, 42, 73, 124 Ashman, RB, 300:281 Asnis, SE, 298:191 Aspenberg, P, 304:272

Åström, M, 308:166 Atar, D, 307:142 Ateshian, GA, 306:28 Athanasiou, KA, 299:305 Au, MK, 300:254 Auerbach, DM, 308:241 Avikainen, V, 303:140 Azuma, H, 304:172

B

Bachus, KN, 309:2 Baffes, GC, 298:80, 301:302 Baker, WM, 299:2 Baldwin, A, 299:77 Balian, G, 308:220 Bannister, GC, 299:293 Banovetz, J, 301:239 Bansal, M, 298:191 Bansal, M. 298:240 Bard, M, 304:91 Bardin, T, 304:91 Barletta, L, 308:43 Barrack, RL, 298:80, 300:183 Barrios, C, 298:259 Bartley, RE, 299:18 Bartolozzi, A, 308:90 Bassett, FH, III, 307:110 Bassett, GS, 303:295 Bauer, TW, 298:11 Bauman, PA, 302:57 Bdolah-Abram, T, 300:241 Beaconsfield, T. 308:18 Beaupré, GS, 303:291 Beaver, WB, 303:86 Bechtel, R, 301:49 Beeks, D, 298:19 Behr, C, 309:94 Beight, JL, 299:139 Bellocci, M, 308:54 Benevenia, J, 302:235

Benjamin, J, 298:199, 309:11 Bennett, AP, 309:20 Bennett, KA, 302:69 Berardi, A, 308:29 Berg, T, 301:10 Bergenudd, H, 308:264 Bernageau, J, 304:78, 91 Bernstein, L. 305:96 Berridge, D, 306:171 Berry, H, 298:250 Beynnon, BD, 309:88 Bhave, A, 301:80 Biermann, JS, 301:139 Bigliani, LU, 304:30, 306:28, 54, 307:27 Binnington, AG, 306:250 Birch, JG, 308:254 Blacksin, MF, 302:235 Blair, B, 306:256 Blair, JM, 305:229 Blake, MJ, 309:102 Blankevoort, L. 299:235 Blanks, RH, 301:256 Blewitt, N, 306:171 Bloebaum, RD, 298:19, 309:2 Bloem, RM, 300:259 Blotman, F. 304:108 Bobyn, JD, 298:27 Bocell, JR, 309:230 Boden, SD, 301:164 Boese, CK, 299:203 Bohlman, HH, 300:24, 309:208 Boileau, P. 299:220 Bolander, ME, 308:220 Boles, M, 301:19 Bolhofner, BR, 305:112 Bonutti, PM, 303:128 Booth, RE, 309:69 Booth, RE, Jr., 299:114, 139 Bosch, U. 305:69

Bosco, J, 309:11

Boskey, AL, 298:240 Böstman, O, 298:277 Bostrom, MP, 309:20 Boté, H, 301:19 Botte, MJ, 305:229 Bourne, RB, 298:37, 156, 299:11, 147 Bradbury, G, 298:199 Bradford, DS, 306:64 Bradley, E, 305:81 Bragdon, C, 308:111 Brage, ME, 304:184 Branam, L. 298:184 Brause, BD, 298:97, 301:205 Breed, AL, 301:249 Brems, JJ, 307:70 Brick, GW, 303:86 Brien, EW, 303:116 Brighton, CT, 306:222 Brindley, HH, Sr, 299:203 Brittberg, M, 307:155 Brivio, LR, 308:63 Bronk, J, 303:264 Bronk, JT, 302:273 Brooks, CE, 298:27 Brooks, LR, 305:133 Brown, DG, 299:143 Brown, TD, 298:127 Brunner, UH, 301:147 Buchmann, P, 303:4 Buck, BE, 303:8 Buckerfield, CT, 303:295 Buechel, FF, 298:202 Bullas, R, 298:156 Bullough, PG. 298:191 Burdygin, VN, 303:95 Burkart, BC, 298:37, 299:147 Burkhart, SS, 308:285 Busuttil, RW, 303:237 Buzzi, R, 308:8

C

Cadossi, R, 306:213 Caja, VL, 309:257 Calder, HB, 305:160 Calhoun, JH, 303:217 Callaghan, JJ, 298:127 Callaway, GH, 301:205 Cameron, HU, 298:47, 309:29 Campanacci, M, 306:213 Canosa, R, 301:291 Cañadell, J. 298:259 Capanna, R, 306:213 Capasso, G, 308:43, 79 Capello, WN, 298:54, 75 Carlson, DA, 308:187 Carpenter, JE, 304:10 Catagni, MA, 301:159 Caterini, R, 308:54 Catre, MG, 298:60 Cattaneo, R, 301:159 Cecil, ML, 303:170 Cetti, R, 308:155 Chamberlain, JC, 306:171 Chandler, H, 298:67, 308:111 Chansky, HA, 302:290 Chao, CF, 300:254 Chao, EYS, 302:273, 309:257 Chapman, JR, 302:290 Chavda, DV, 303:211 Chen, C-M. 302:75 Chen, F, 305:249 Chen, T-H, 302:75 Chen, W-M, 302:75 Cheng, LX, 302:22 Chern, KY, 306:34 Chhabra, MS, 301:177 Chiba, J, 299:114, 300:304, 309:278 Chiu, F-Y, 302:75 Cho, S-H, 308:127 Chow, SP, 300:52 Chung, JY, 307:229 Ciaramitaro, M, 305:38 Cierny, G, III, 301:118 Clark, J, 298:67 Clayer, M, 300:219 Clemow, AJT, 298:80 Cobb, AG, 305:200 Codine, P. 304:108 Codivilla, A, 301:4 Cody, RP, 299:131, 299:229 Cofield, RH, 301:185, 307:86 Cohen, I, 304:204 Cohen, J. 303:289 Cohen, RB, 301:243 Cole, JD, 305:112 Collier, JP, 299:92, 104, 307:284 Collins, ED, 308:241 Colwell, CW, Jr., 307:130, 309:124 Colyer, RA, 298:75

Combalia-Aleu, A, 309:277 Commisso, CN, 301:271 Compito, CA, 307:27 Compston, J, 298:250 Connolly, JF, 306:286 Conrad, EU, 302:290 Constantinides, G. 299:305 Conti, SF, 305:239 Contreras, D. 302:189 Cook, SD, 298:80, 301:302 Cooke, DV, 309:56 Coombs, R, 307:222 Cooney, WP, 299:256 Copeland, J, 298:199 Cordey, J, 301:147 Corso, SJ, 300:123 Craig, EV, 307:2 Crawford, AH, 306:209 Crockard, HA, 300:70 Crossett, LS, 299:114 Cuckler, J, 307:283 Curran, JJ, 304:184

D

Dahl, MT, 301:10 Dahners, LE. 307:255, 308:207 Dalén, N. 300:193 D'Alessandro, DF, 306:54 Dalinka, MK, 305:293, 306:284, 307:280, 309:274 Damron, TA, 300:133, 301:249 Danylchuk, K, 298:67 Davey, JR, 306:250 Davids, JR, 302:27 Davidson, JP, 299:44 Davila, R, 305:81 Davis, JR, 301:80 Dawson, D, 309:150 De, SD, 304:248 Dean, PB, 307:200 De Biase, P, 307:165, 308:8 de Boer, HH, 306:155 De Campos, J. 300:178 Defrere, J, 303:56 Dejour, H, 299:220 de la Huerta, F, 301:89 Delamarter, RB, 300:24 de Lange, S, 305:53

Delecrin, J. 307:240 Delgado, E, 302:189 Delgado, MR, 308:254 Dellon, AL, 301:221 Delp, SL, 302:121 del Torto, M, 308:85 Deluca, LS, 302:138 De Martino, C. 308:54 Denis, F, 300:38 Denti, M. 308:29 de Pablos, J. 298:259 de Palma, L, 308:85 de Ridder, VA, 305:53 Derkash, RS, 308:102 Desai, P. 307:214 Deshmukh, RG, 309:131 Devane, P. 299:11 Devaney, K, 300:233 Dick, HM, 306:2, 46 Dickson, K. 302:189 Dietz, FR, 302:101 Dines, DM, 307:18 DiPasquale, T, 298:221 Dittus, RS, 305:209 Dobozi, WR, 308:187 Donati, D, 306:213 Donell, ST, 299:220 Dong, N, 298:80 Dorey, F, 302:147 Dorey, FJ, 302:284, 305:88, 307:124 Dorfman, HD, 305:293 Dorr. LD. 298:19 Dossick, PH, 298:240 Draganich, LF, 304:184 Draper, ERC, 301:281 Drucker, D. 298:202 Du, Y-K, 302:115 Ducheyne, P, 307:283 Dujovne, AR, 298:27 DuPont, JA. 298:19, 302:194 Duralde, XA, 304:30, 306:54 Duthie, RB, 300:102

E

Easley, K, **308**:229 Ebraheim, NA, **302**:213, **303**:226, **307**:222 Eckardt, JJ, **298**:229, **302**:92, 219, **303**:135, 237 Ecker, ML, **299**:25 Eckhoff, DG, 302:2, 42, 64 Eftekhar, NS, 298:8, 304:165, 306:73, 84 Egawa, M. 308:139 Ehrlich, MG, 302:111, 306:230 Einhorn, TA, 308:173 Eisenstein, SM, 301:177 Ekfors, T, 307:200 Ellman, H. 301:181 Emerson, RH, Jr., 298:119, 303:79 Emery, SE, 300:207 Engber, WD, 300:133 Engh, CA, 298:89, 305:295, 306:145 Engh, GA, 309:33 Enker, P. 300:90 Enneking, WF, 306:247 Eppley, BL, 298:266 Eskola, A, 302:259 Esser, RD, 299:244, 302:156 Estok, DM, II, 299:190 Evans, BG, 298:97

F

Fabry, G, 302:22 Fairhurst, MJ, 301:227 Faris, PM, 299:153, 309:136 Farsetti, P, 308:54 Faxén, E, 307:155 Feagin, JA, Jr, 306:163 Feeny, D, 298:156 Feffer, HL, 301:164 Fehring, TK, 299:157, 304:229 Feinberg, JR, 298:54 Feng, EL, 299:60 Fenlin, JM, Jr, 307:37 Fenton, PJ, 303:170 Fernandez, RJ, 308:178 Figgie, MP, 298:240 Finn, HA, 303:147 Fischer, DA, 304:200 Fischgrund, J, 301:31 Fisher, SB, 309:56 Fishmann, AJ, 305:133 Fitch, RD, 300:147 Fitsialos, D. 304:195 Fitzgerald, JF, 305:209 Fitzsimmons, JS, 301:271

Fixsen, JA, 308:50 Flahiff, CM, 307:117 Flandry, F, 298:212 Flandry, FC, 300:183 Flatow, EL, 304:30, 306:28 Flynn, JM, 303:38 Flynn, WF, Jr, 309:131 Foldes, J. 300:241 Fornasier, VL, 306:250 Franckart, A, 303:56 Fraser, RD, 300:30 Frassica, FJ, 304:190 Freund, DA, 305:209 Friedman, RL, 306:163 Friedman, SJ, 304:190 Frieman, BG, 307:37 Frierson, M, 301:19 Fritts, HM, 304:200 Froimson, AI, 304:116 Fryer, JN. 304:18 Fujino, M, 302:251 Fujio, K, 307:235 Fukuda, H. 304:18, 60 Fukuhara, K, 304:37

G

Galante, JO, 299:31, 309:150 Gallay, SH, 301:271 Galvin, EG, Col, 301:233 Ganey, T, 301:19 Ganey, TM, 301:132, 302:17 Gannon, FH, 309:274 Gänsslen, A, 305:69 Ganz, R, 305:124 Garcia, T, 301:132 Garino, JP, 306:17 Garrett, JC, 303:33 Garvin, KL, 298:97, 300:162, 303:211 Gautsch, TL, 305:138 Gazielly, DF, 304:43 Geesink, R, 303:292 Gelberman, RH, 300:248 Gellman, H, 298:272 Genant, HK, 308:281 Ghaffarpour, M, 298:89 Ghalambor, N, 305:96 Ghandur-Mnaymneh, L, 303:103 Gigante, A, 308:33 Gilbert, JA, 306:97

Gillquist, J. 303:291 Giordano, CP, 307:214 Giron, F. 308:8 Gitelis, S, 308:192 Gleitz, M, 303:193 Gleyze, P, 304:43 Gluck, JL, 308:178 Goldstein, LI, 303:237 Gomez, E, 299:305 Gomez, J. 308:250 González del Pino, J, 301:291 Goodfellow, DB, 302:138 Goodfellow, J. 303:290 Goodman, FG, 300:168 Goodman, S. 304:272 Goodman, SB, 302:297 Gould, ES, 298:191 Goutallier, D, 304:78, 91 Grady-Benson, JC, 307:130 Grant, AD, 307:142 Greco, F, 308:33 Grecula, MJ, 304:148, 306:132 Green, A, 307:7 Green, SA, 301:111 Green, V. 308:50 Greeno, RA, 305:133 Greenough, CG, 300:30 Greenwald, TA, 301:249 Grelsamer, RP, 306:28 Griffin, MP, 309:56 Grigoris, P, 304:148, 306:132 Gristina, AG, 298:106 Gross, AE, 298:60 Guanche, CA, 304:200 Gude, S, 303:203 Guerreschi, F, 301:159 Guida, G, 308:73 Guidera, KJ, 302:17 Gulli, B, 301:10 Gustilo, RB, 309:156

H

Haas, SB, 309:163 Hadjari, MH, 307:117 Hak, DJ, 302:219 Hallack, GN, 299:53 Hamada, K, 304:18, 60 Hamada, T, 305:273 Hamanishi, C, 303:250, 307:250

Hamdy, RC, 302:111, 306:230 Hamilton, A, 300:79 Hamilton, WG, 302:57 Hanson, PB, 307:130 Hanssen, AD, 309:44, 116 Harp, JH, 301:42, 73 Harrington, I, 304:280 Harrington, RM, 302:290, 309:245 Harris, E. 301:181 Harris, WH, 298:202, 299:190, 308:111 Harrison, MM, 309:56 Hartley, RB, 301:191 Harwood, DA, 299:131 Hashimoto, J, 300:269 Hashimoto, T, 305:273 Hata, Y, 304:54 Hawkins, BJ, 303:217 Head, WC, 298:119, 303:79 Healey, JH, 303:116 Healy, WL, 299:53, 143 Hearn, SL. 299:139 Hearn, T, 304:280 Heck, DA, 305:209 Hedman, TP. 304:195 Hedström, M, 300:193 Heegaard, J. 299:235 Heilman, AE, 300:45 Heiple, KG, 302:138 Helfet, DL, 298:221, 301:213, 305:58 Helmig, P, 304:84 Henderson, MR, 307:174 Henriksen, LO, 308:155 Herbst, SA, 309:136 Hernandez-Moneo, JL, 307:182 Herrington, SJ, 300:207 Herzenberg, JE, 301:49, 80, 302:36 Hess, T, 303:193 Hicken, GJ, 300:201 Highgenboten, CL, 298:246 Hinkle, DK, 303:18 Hino, T, 304:25 Hirata, S, 300:297, 305:223 Hirayama, T, 309:201 Hiroshima, K, 304:156 Hirsch, HS, 309:64 Hodgson, AR, 300:16 Hoffman, G, 309:2

Hofmann, AA, 298:19, 309:2 Hofmann, OE, 307:117 Hogervorst, M, 305:53 Hoikka, V, 302:259 Holdener, H, 305:38 Hollis, JM, 307:117 Hollis, M, 301:42 Hollister, AM, 298:272 Holman, JA, 301:159 Holtom, PD, 306:128 Honkonen, SE, 302:199 Hooten, JP, Jr., 298:89, 306:145 Hopf, T, 303:193 Horikoshi, M, 309:69 Horner, G, 301:221 Hornicek, FJ, 303:103 Horowitz, SM, 305:293, 306:284, 307:280, 309:274 Hosick, WB, 299:77 Howard, AC, 303:198 Howe, JG, 299:81, 309:88 Hozack, WJ, 299:139 Hsu, K-Y, 300:120 Hsu, LCS, 302:173 Hsueh, S, 302:231 Hu, RW, 309:208 Huang, C-K, 302:75 Hughes, SPF, 301:281 Hughes, SS, 300:207 Hughes, TH, 308:50 Hughston, JC, 298:212, 300:183 Hukuda, S, 308:139 Hungerford, DS, 299:125 Hunt, RM, 306:222 Hussein, AA, 301:177 Huvos, AG, 306:284, 307:280 Hyodo, A, 308:229

I

Iannotti, JP, 306:222 Ibrahim, K. 301:19 Idler, RS, 299:256 Ihara, H, 307:146 Ilahi, OA, 299:44 Ilstrup, DM, 302:164 Imai, S, 308:139 Imai, Y, 300:225 Imura, S, 300:297

Incavo, SJ, 299:81, 309:88
Inoue, A, 308:199
Inoue, K, 308:139
Insall, JN, 299:179
Iorio, R, 306:84
Ippolito, E, 308:54
Irby, SE, 309:124
Ishikawa, H, 300:297, 305:223
Isiklar, ZU, 299:173
Itoh, H, 298:296, 299:282
Ivarsson, I, 303:291
Iverson, BF, 305:200
Iwaki, Y, 300:304
Iwasaki, A, 308:139

J

Iwata, H, 298:296, 299:282

Jackson, A, 298:246 Jackson, WT, 302:213, 303:170, 307:222 Jacobs, JA, 302:183 Jacobsen, KS, 308:155 Jacobson, KE, 300:183 Jaffe, RA, 302:297 Jaffray, D, 300:64 Jankiewicz, JJ, 309:94 Jaroma, H, 302:259 Jasty, M, 298:202, 303:294, 308:111 Jayaraman, G, 301:64 Jeanneret, B, 304:130 Jelinek, JS, 307:189 Jensen, RE, 299:92, 104 Jiang, M, 298:11 Jiranek, W, 298:202, 308:111 Johnson, C, 299:53 Johnson, CC, 309:88 Johnson, EE, 305:2, 138, 305:20, 47, 88 Johnson, KK, 302:42 Johnson, W, 299:53 Johnston, JO, 308:281 Johnston, R, 299:53 Johnston, SP, 304:10 Johnstone, CA, 305:160 Johnston-Jones, K. 303:280 Josefsson, PO, 299:252 Jovanovic, M, 304:130 Jung, A, 304:84 Junglas, WA, 300:207

K

Kabo, JM, 302:92 Kabo, JM, 302:284, 303:280 Kadosh, S, 300:241 Kaempffe, FA, 301:260 Kahn, R, 299:179 Kambic, H, 308:229 Kaplan, FS, 301:243, 302:239, 304:238, 306:264, 308:173 Karlsson, M, 299:252 Karpman, R, 299:53 Kashiwagi, D, 305:223 Kato, K. 298:305 Katoh, R, 298:305 Katsuki, M, 309:201 Kattamis, A, 308:250 Katz, BP, 305:209 Katz, DS, 306:204 Katzman, S, 302:189 Kaufman, KR, 309:124 Kay, RM, 302:92, 219, 303:135, 237, 305:88, 307:124 Kay, SP, 301:181 Keating, EM, 309:136 Keating, M, 299:153 Keeley, FW, 300:288 Kellam, J, 304:280 Kellam, JF, 305:152 Kelly, IG, 307:94 Kelly, PJ, 302:273 Keneally, CR, 302:17 Kennedy, JM, 305:209 Kerboull, L. 298:175 Kester, MA, 298:80 Kevak, J. 305:178 Kiernan, HA, 306:17 Kikuchi, T, 298:296 Kikuchi, T. 299:282 Kilcoyne, RF, 302:64 Kilgus, DJ, 305:178 Kim, AS, 305:178 Kim, KJ, 300:304 Kim. R. 308:127 Kim, S-J, 300:117 Kim, W, 309:257 Kim, WC, 302:69 Kingma, L, 305:53 Kinnard, P. 304:22 Kirk, PG, 298:37, 299:147 Kirkpatrick, JS, 300:24

Kita, K, 305:223 Kitaoka, HB, 300:201, 302:164 Klees, E, 298:199 Klein, RW, 300:162 Klemme, WR, Maj, 301:233 Klotch, DW, 301:132 Knee Replacement Patient Outcomes Research Team. The, 305:209 Knight, RO. 306:286 Ko, G-H, 308:127 Kobayashi, S. 306:73, 84 Kody, MH, 302:284 Kolettis, GT, 309:102 Komai, M, 304:54 Komiya, S, 308:199 Konttinen, YT, 306:136 Koo, K-H, 308:127 Korell, M, 309:193 Korovessis, P, 300:155, 309:214 Koudstaal, J, 306:155 Kour, AK, 304:248 Koval, K, 298:221 Koval, KJ, 306:256, 307:214 Kozak, JA, 300:45 Krackow, KA, 299:125, 305:249 Kreder, HJ, 300:288, 302:206 Krukowski, M, 298:266 Krygier, JJ, 298:27 Kubo, H. 300:297 Kummer, F, 306:256 Kunkle, KL, 308:241 Kurihashi, A, 304:218 Kurtz, DM, 298:212, 300:183 Kurtz, SR. 299:53 Kurvinen, H, 306:136 L

Lackman, RD, 303:103 Ladkani, D, 300:241 Landon, GC, 299:173 Lane, JM, 303:116 Lange, TA, 306:197 Langerman, RJ, 303:217 Larsson, S, 309:257 Laskin, RS, 309:163 Laupacis, A, 298:156 Lavau, L, 304:78 Lavini, FM, 308:63 Lee, DH, 304:97 Lee, G, 308:127 Lee, TQ, 302:69 Lehman, WB, 307:142 Leichter, I, 300:241 Leighty, RM, 299:31 Leivo, I, 302:266 Leong, JCY, 300:52 Leroux, J-L, 304:108 Leslie, K, 298:156 Leso, P, 308:63 Lester, DK, 301:256 Letournel, E, 305:5, 20, 47 Letson, AK, 308:207 Leventhal, M, 300:24 Levinsohn, EM, 306:204 Levitt, RL, 303:67 Lewallen, DG, 299:256 Lewis, P, 299:11 Leyvraz, P-F, 299:235 Lieberman, JR, 300:162, 301:205, 307:124 Liebler, J, 303:193 Lin, Y-H, 302:115 Lindholm, TC, 301:263 Lindholm, TS, 301:263 Lindy, O, 306:136 Lintner, DM, 309:230 Liu, SH, 302:147, 303:203 Lo, HK, 303:18 Lo, W-H, 302:75 Loehr, JF, 304:84 Lopez-Barea, F, 307:182 Lotke, PA, 299:25, 77, 309:64 Lowry, WE, 299:203 Lozano, R. 298:286 Lunsford, T. 303:203 Lutz, RB, 300:141 Lyons, M, 302:235

M

Macalino, GE, 298:89 Macaulay, W, 309:69 Maccauro, G, 308:85 Mack, GR, 300:141 MacKenzie, JR, 298:127 Mackenzie, WG, 301:55 Maffulli, N, 308:2, 18, 43, 50, 68, 79 Magerl, F, 304:130 Magnus, RE, 298:147 Mahomed, N, 304:280 Mailhe, D. 304:108 Maistrelli, G, 304:280 Majkowski, RS, 299:293 Makarov, MR, 308:254 Malawer, MM, 307:189 Malinin, T, 303:67 Malinin, TI, 298:119, 303:2, 8, 18, 79, 103 Maloney, W, 308:111 Maloney, WJ, 302:121 Manfrini, M, 306:213 Mangham, DC, 308:199 Mankin, HJ, 300:213, 303:38, 309:234 Manley, MT, 298:137 Manninen, M, 298:277 Manning, T, 308:229 Mar, T, 298:229 Marie le Damany, PG, 302:4 Marrone, G, 308:73 Marsh, JL, 301:139 Marsolais, EB, 304:122 Martimbeau, CL, 305:47 Martin, SD, 299:259 Marttinen, A, 301:263 Masetti, C, 306:213 Mason, RJ, 304:190 Mast, J, 305:160 Mast, JW, 305:20, 47, 38, 106 Masuhara, K, 299:209, **300**:274, **303**:155, **305**:190 Matos, LA, 304:222 Matsui, M, 300:269, 274, 303:155 Matsumoto, H, 299:298 Matsumoto, T, 304:68 Matsunaga, S, 305:168 Matta, JM, 305:2, 10, 20, 47, 96, 133 Matthews, LS, 303:292 Mayo, KA, 305:31, 47 Mayo, KA, 309:245 Mayor, MB, 299:92, 104 Mazor, Z, 300:241 McAfee, PC, 306:110

McAlister, JA, Jr, 304:229

McCann, SB, 298:212,

McCarthy, DS, 298:184,

304:263, 309:176

300:183

McCarthy, ID, 301:281 McCarthy, J, 298:67 McCollum, DE, 299:212 McDevitt, CA, 303:256 McGovern, TF, 298:89, 306:145 McGrory, BJ, 303:264 McHale, KA, 305:242 McIlveen, SJ, 306:54 McKay, DW, 305:242 McLaren, AC, 302:194 McLaughlin, HL, 304:3 McLeod, KJ, 298:165 McNamara, JL, 299:104 McPherson, SA, 300:141 Meals, RA, 302:284, 303:280 Medendorp, SV, 298:11 Meding, JB, 299:153, 309:136 Mehdian, H. 300:64 Melfi, CA, 305:209 Menczel, J, 300:241 Merritt, PO, 300:178 Meske, NB, 298:246 Mesko, JW, 300:168 Messer, A, 305:152 Meushar, N. 303:231 Michael, A, 309:214 Michalow, A, 303:67 Michelsen, CB, 306:17 Michelsson, J-E, 302:266 Mih, AD, 299:256 Miles, AW, 299:293 Miller, BG, 303:128 Miller, J, 299:163 Miller, R. 303:290 Miller, RR, 303:256 Miller, SD, 307:174 Min, B-H, 300:117 Mindell, ER, 309:234 Mirra, JM, 302:219 Mitchell, W. 309:2 Miura, T, 298:296, 299:282 Miura, Y, 300:225, 301:271 Miwa, M, 307:146 Mnaymneh, W, 303:18, 103 Molenaers, G, 302:22 Moneim, MS, 306:120 Moniz, C, 298:250 Monsanto, EH, 308:241 Mont. MA. 299:125 Montagnon, C, 304:43 Monteleone, M, 308:29

Montgomery, JB, 300:281 Montgomery, WK, 302:64 Montreuil, J. 304:22 Moon, ES, 307:229 Moran, CG, 303:264 Moran, M, 300:288, 304:252 Morris, F. 305:258 Morrison, JB, 301:55 Morrison, LD, 309:64 Moskal, JT, 304:139 Moussa, M, 304:176 Mow, CS, 309:110 Mow, VC, 306:28, 34 Mulpruek, P, 300:197 Murphy, S, 298:67 Murray, PB, 309:116 Murrell, GAC, 300:147 Murzic, WJ, 299:212 Muschler, GF, 308:229 Myerson, MS, 306:183, 307:174

N

Nagamine, R, 304:263 Naidu, S. 306:222 Nakajima, T, 304:60 Nakamura, T. 307:240 Nakase, T, 308:213 Nakata, K. 304:156 Nakayama, A, 307:146 Nakazato, H. 300:269 Natarajan, RN, 299:31 Nathanson, MA, 299:263 Neer, CS, II, 307:3 Nele, U, 308:68 Nelson, CL, 307:117 Neo, M. 302:251 Nercessian, OA, 304:165 Neviaser, JS, 306:12 Neviaser, RJ, 306:12 Neviaser, TJ, 306:12 Newman, JH. 302:134 Neyret, P. 299:220 Nga, NT, 309:267 Nicholas, RW, 306:197 Niemann, KMW, 304:97 Nikkanen, V, 307:200 Nilsson, B, 308:264 Nishibayashi, Y, 300:297 Nishijima, N, 307:235 Nizard, RS, 298:175

Nobuhara, K, **304**:25, 54 Nogami, H, **298**:305 Noguchi, T, **302**:251 Noguchi, Y, **306**:222 Nordby, EJ, **307**:260 Nordqvist, A, **300**:127 Norman, A, **303**:231 Norris, TR, **307**:7 Nott, L, **299**:147

0

Oakeshott, R, 300:219 Obara, T. 298:296 O'Brien, JP, 300:45, 64 O'Brien, SJ, 303:44 O'Connor, J, 303:290 O'Driscoll, SW, 301:271 Ogden, JA, 301:132, 302:17 Ogilvie-Harris, DJ, 304:195 Ohno, O, 300:297, 305:223 Ohzono, K, 303:155, 304:156, 305:190 Oishi, CS, 307:130, 309:124 Oka, M. 302:251, 307:240 Okano, T, 305:168 Okawara, Y. 304:18 O'Keefe, RJ, 300:213 Olanlokun, TK, 305:200 Oliva, A, 308:73 Olney, BW, 301:64 Ono, K, 299:209, 300:269, 303:155, 305:190 Ono, Y, 298:305 Oohira, A. 298:305 Osman, SG, 304:122 Osmon, DR, 309:44 Österman, K, 300:264, 302:259 Osti, L. 302:147 O'Sullivan, ME, 302:273 Otis, SM, 307:130 Otsuka, NY, 306:250

p

Packard, S, **305**:218 Päivärinta, U, **298**:277 Paley, D, **301**:31, 49, 80, 102, **302**:36 Palumbo, R, 308:73 Pang, D, 302:69 Panni, AS, 308:29 Panozzo, A, 306:213 Papagelopoulos, PJ, 302:164 Pappas, J, 298:221 Paprosky, WG, 298:147 Parkes, JC, 306:5 Parks, NL, 309:33 Parsons, V, 298:250 Partio, E, 303:140 Paschal, SO, 300:281 Pathria, MN, 300:207 Pawluk, RJ, 306:28 Pearson, WG, 303:292 Pedersen, DR, 298:127 Peeper, J. 301:243 Pellicci, PM, 301:205 Peltier, LF, 309:267 Penenberg, B, 298:67 Peretti, G. 308:54 Perez-Alvarez, M, 307:182 Perren, SM, 301:147 Perry, J, 303:185 Peruzzi, WT, 309:102 Petersen, SA, Maj, 301:233 Petersilge, WJ, 309:124 Peterson, L, 307:155 Petersson, C, 300:127 Petit, PLC, 300:259 Petri, GJ, 308:18 Pettilä, M. 302:266 Pfeifer, BA, 299:53, 143 Phillips, FM, 303:147 Phillips, HO, IV, 306:97 Pho, RWH, 304:248 Piasecki, PA, 308:192 Piccoluga, F, 304:165 Pietersen, HG, 302:183 Pihlajamäki, H, 298:277 Pintore, E, 308:18, 68 Piperos, G, 309:214 Pitt. P. 298:250 Plitz, W, 303:242 Pocholle, M. 304:108 Podeszwa, DA, 303:226 Poggie, RA, 309:176 Pohlemann, T, 305:69 Pollock, RG, 304:30 Pooley, J, 306:171 Posada, A, 303:67 Postel, J-M, 304:78

Pottenger, LA, 303:147, 304:184 Poussa, M. 302:259 Powers, CM, 303:185 Present, D, 303:231 Pribyl, CR, 306:120 Prichasuk, S, 300:197, 306:192 Pritchett, JW, 303:173, 305:295 Prokuski, L. 301:139

0

Qureshi, AA, 308:192

Prothero, SR, 306:5

R

Ragione, FD, 308:73 Rakotomanana, L, 299:235 Ramsey, ML, 307:37 Ranawat, CS, 309:94, 131 Rand, JA, 309:44, 116 Rao, SB, 306:209, 307:103 Rauff, A. 304:248 Raut, VV, 303:165 Redden, JF, 303:198 Redlund-Johnell, I. 299:252 Repanti, M. 300:155 Riccio, V, 308:73 Richards, GK, 299:163 Riegler, FX, 305:283 Ries, MD, 308:146 Rimnac, CM, 300:162, 309:20 Ripley, LP, 304:139 Ritsilä, VA. 302:259 Ritter, MA, 299:153, 309:136 Rizzo, PF, 298:191 Robb, WJ, III, 299:18 Robinson, CM, 302:83 Robla, J. 304:222 Rock, MG, 301:185 Rocke, DM, 301:243 Rockwood, CA, Jr., 307:47, 308:98 Rodriguez-Peralto, JL, 307:182 Roe, SC, 308:284 Roehr, B, 298:67 Roetman, B, 303:242

Roger, DJ, 302:151

Rogers, MA, 300:70 Rokkanen, P. 298:277 Ronchetti, PJ, 299:81 Rongstad, KM, 306:247 Roofeh, J, 300:123 Rorabeck, CH, 298:37, 156, 299:11, 147 Rosenau, W, 308:281 Rosenbaum, DH, 307:189 Rosenberg, AE, 309:234 Rosenberg, AG, 299:31, 309:150 Rosenthal, DI, 300:213 Rosenwasser, MP, 306:17 Rougraff, BT, 304:207 Routt, MLC, Jr., 309:245 Rowe, SM. 307:229 Rowland, SA, 308:285 Roy, DR, 307:103 Rubak, JM, 302:259 Rubash, HE, 299:114, 300:304, 309:278 Rubin, CT, 298:165 Rubin, DA, 306:284, 307:280, 309:274 Rubin, PJ, 299:235 Rueger, DC, 301:302 Ruesch, PD, 305:38 Rupp, RE, 302:213 Rupp, S, 303:193 Rusin, JJ, 307:222 Rzetelny, V, 304:204 S

Sabetta, SP. 308:85 Safran, MR, 302:284, 303:280 Saji, MJ, 302:173 Sakakibara, Y, 298:296, 299:282 Sakou, T. 305:168 Sakurai, A, 305:223 Saleh, M, 301:94 Salisbury, J, 298:250 Sallay, PI, 298:54 Salter, RB, 300:288, 304:252 Salvati, EA, 298:97, 300:162, 301:205 Samchukov, ML, 308:254 Sammarco, GJ, 305:239 Sampath, TK, 301:302 Sanders, D, 299:53

Sanders, RW, 298:221 Santavirta, S. 302:259, 306:136 Saotome, K. 304:218 Sara, T, 304:248 Saran, D. 302:83 Sarkar, K, 304:2, 37 Sasaguri, Y. 305:273 Sasse, J, 301:132 Sato, T. 305:223 Savory, CG, 298:19 Saxby, T, 307:174 Sayre, LA, 298:4 Scarcella, JB, 304:116 Scarpa, A, 308:4 Schenck, RC, Jr., 299:305, 308:250 Scheufele, LL, 301:49 Schmeling, GJ, 301:213, 305:58 Schmotzer, H, 309:193 Schnall, SB, 306:128 Schollmeier, G, 304:37 Schroeber, DC, 302:194 Schroeter, TA, 307:110 Schurman, DJ, 302:121 Schweiberer, L. 301:147 Schweiger, GP, 303:185 Schwendeman, LJ, 299:114 Scott, RD, 309:146 Sculco, TP, 309:94, 163 Scully, SP, 300:213 Sedel, L. 298:175 Seedhom, BB, 299:298 Seeff, J, 302:235 Seeger, LL, 302:92, 219, 305:138, 307:124 Seemann, MD, 300:281 Seidman, J, 299:143 Seitz, WH, Jr, 304:116 Self, EB, 307:27 Sell, B, 302:173 Sell, P, 302:173 Sellman, DC, 304:116 Seltzer, DG, 308:98 Serekian, P, 298:80, 137 Sgambato, A, 308:79 Shaffrey, CI, 304:139 Shah, SA, 305:258 Shalita, B, 300:241 Sharrock, N, 299:179 Shaul, JA, 308:146

Shaw, BA, 301:256

Shen, TY, 306:239 Shen, X, 301:25 Sher, J, 300:178 Shih, C-H, 300:120, 302:115, 306:175 Shih, C-S, 302:231 Shimaoka, EE, 305:178 Shimizu, K, 300:274, 308:213 Shin, K-H, 304:207 Shoji, H, 305:218 Shore, EM, 302:239, 306:264 Sicard-Rosenbaum, L, 307:189 Silva, E, 306:128 Silveri, CP, 300:123 Simmons, DJ, 298:266, 286 Simon, MA, 304:207 Simonian, PT, 302:290, 309:245 Siney, PD, 303:165 Singson, R, 302:57 Sinha, RK, 305:258 Sirikulchayanonta, V, 308:183 Siriwongpairat, P, 300:197 Skalley, TC, 306:183 Skie, MC, 303:226 Skinner, HB, 305:178 Smith, CA, 302:241 Smith, JD, 302:36 Snellman, O, 302:259 Snyders, RV, Jr, 298:266 Soeters, PB, 302:183 Song, EK, 307:229 Song, H-R, 308:127 Song, Y, 302:297 Sonnabend, DH, 304:74 Sorsa, T, 306:136 Soslowsky, LJ, 304:10, 306:28 Søjberg, J-O, 304:84 Specchia, N, 308:33 Spencer, JD, 301:191 Spindler, KP, 303:256 Spinner, RJ, 307:110 Spiro, TE, 299:203

Springfield, DS, 303:38,

Stamm, ER, 302:64

Stanescu, S, 300:168

Steffee, AD, 300:90

Stanitski, DF, 301:38, 68

Steinberg, BD, 300:248

Steinberg, ME, 299:25

309:234

Steinberg, R. 300:241 Steiner, GC, 303:231 Steinfeld, R, 301:185 Stern, SH, 299:179 Stinchfield, FE, 306:5 Stobberingh, EE, 302:183 Stock, FE, 300:16 St-Pierre, A. 304:22 Strachan, RK, 301:281 Strauch, RJ, 306:46 Strear, CM, 304:238 Stricker, SJ, 306:124 Stulberg, SD, 299:18, 60, 309:102 Subhadrabandhu, T, 306:192, 308:183 Suda, A, 300:225, 306:136 Sugano, N, 299:209, 303:155, 305:190 Sugiyama, M, 308:199 Sumner, DR, 309:150 Supapo, AR, 304:25 Suter, C, 301:31 Suzuki, K, 305:273 Sweeney, HJ, 299:18 Sweet, DE, 300:233 T Tada, H, 309:201 Taddei, I, 307:165 Takagi, M, 306:136 Takahashi, S, 307:240 Takahashi, Y, 309:156 Takai, R. 307:142 Takaoka, K, 299:209, 305:190, 308:213 Taketomi, E, 305:168

300:269, 274, 303:155, Takayanagi, K, 307:146 Tamai, K, 304:218 Tamai, S, 303:178 Tanaka, S, 303:250, 307:250 Taneda, H, 304:172 Tang, JS, 300:254 Tanzer, M, 298:27, 299:163 Tarrentino, S, 309:94 Taylor, LJ, 300:30 Taylor, SK, 298:11 Temple, HT, 300:213 Templeton, AA, 308:192

Tencer, AF. 309:245 Tenuta, JJ, 305:242 Tepper, S. 301:49 Terayama, K, 306:73, 84 Terek, RM, 303:116 Testa, V, 308:43, 79 Tetsworth, KD, 301:102 Tewes, DP, 304:200 Thomas, E. 304:108 Thonar, EJ-MA, 304:252 Thornhill, TS, 309:146 Thren, K. 309:193 Tierney, WM, 305:209 Tipton, JS, 305:178 Tomonaga, A, 304:18, 60 Topping, RE. 308:220 Torburn, L, 303:185 Törmälä, P, 298:277 Tosi, LL, 305:242 Totani, Y, 303:250, 307:250 Tranowski, JP, 299:81 Tria, AJ, Jr., 299:131, 229 Tribus, CB, 306:64 Trivedi, P. 298:250 Trivella, G. 301:94 Trousdale, RT, 305:124 Trowbridge, A, 299:203 Truchon, R, 304:22 Trudelle-Jackson, E. 298:246 Tsahakis, PJ, 303:86 Tscherne, H. 305:69 Tsuzuki, K, 308:199 Tuan, RS, 302:241, 305:258 Tudisco, C, 308:54 Tugwell, P. 298:156 Tulli, A, 308:85 Tullos, HS, 299:44, 173, 309:230 Turner, AS, 302:11 Turner, MS, 302:47 Turner, RS, 301:196 Turner, TM, 309:150

U

Ueng, W-N, 302:231, 306:175 Uhthoff, HK, 304:2, 37 Upadhyay, SS, 302:173 Urban, RM, 309:150 Urist, MR, 300:2, 301:263

V

Valadie, AL, 299:157 Valente, RM, 300:201 Valeri, CR, 299:53 Valtakari, T, 302:266 Vandermolen, J, 303:147 Vangsness, CT, Jr., 300:178, 303:203 Van Kampen, A, 299:235 Vasavada, AN, 302:121 Veen, MR, 300:259 Veltri, DM, 303:44 Vinh, TN, 300:233 Voisin, MC, 304:91 Voisin, M-C, 304:78 von Bonsdorff, H, 303:140 Vroemen, J, 304:280

W

Wagner, RA, 298:119 Walenkamp, GHIM, 302:183 Walker, PS, 305:200 Walker, RH, 307:130 Wallace, AL, 301:281 Wallace, D. 309:11 Walsh, WR, 306:230 Wang, G-J, 306:239 Wang, J-S, 304:272 Wang, K-C, 300:120 Wardell, S, 309:102 Warren, PJ, 305:200 Warren, RF, 303:44, 307:18 Wasielewski, RC, 299:31 Watanabe, Y, 300:225 Waters, RL, 298:272 Weale, AE, 302:134 Weaver, AL, 303:264

Weaver, JK, 308:102 Webb, JK, 300:79 Weber, TG, 305:106 Wedge, JH, 308:271 Weiland, AJ, 299:259 Welch, RD, 308:254 Wendeberg, B, 299:252 Westlin, N, 308:166 Westrich, GH, 309:163 Wheeler, DL, 306:247 Whipple, R, 302:151 White, SE, 298:184, 304:263, 309:176 Whiteside, LA, 298:2, 184, 299:72, 169, 304:263, 309:176, 185 Wickiewicz, TL, 303:44 Wiedel, JD, 309:110 Wiesel, SW, 301:164 Williams, JM, 304:252 Williams, MO, 301:156 Williamson, SC, 302:151 Wilson, FC, 306:97, 103 Windau, JE, 303:128 Winter, WG, 302:2 Wirganowicz, PZ, 298:229 Wirta, J, 303:140 Wirth, MA, 307:47, 308:98 Witvoet, J. 298:175 Wixson, RL, 299:60, 309:102 Wolf, A, 305:218 Wolfe, MW, 301:302 Wolff, D, 308:146 Wong, C, 298:156 Wood, MB, 303:264 Woodruff, B, 299:203 Woolson, ST, 299:86 Wright, TM, 309:20 Wroblewski, BM, 303:165 Wrona, M, 299:92 Wu, C-C, 302:115 Wuelker, N. 303:242, 309:193

Wyland, DJ, 307:255

Y

Yagi, T, 302:52 Yajima, H, 303:178 Yamaguchi, M, 305:168 Yamaguchi, T, 298:296, 299:282 Yamakawa, M, 300:225 Yamamuro, T. 302:251. 307:235, 240 Yamanaka, K, 304:68 Yan, SQ, 306:239 Yang, C-y, 298:286 Yao, B. 299:139 Yao, L, 302:147 Yau, ACMC, 300:52 Yoon, TR, 307:229 Yoshida, E, 309:201 Yoshii, T, 303:250, 307:250 Yoshikawa, H, 299:209 Yoshikawa, H, 300:269, 274, 308:213 Yoshimi, T. 298:296, 299:282 Yoshino, S, 305:218 Younge, DA. 301:185 Younger, ASE, 301:55

Z

Zaccherotti, G, 307:165 Zajac, FE, 302:121 Zasloff, M, 301:243 Zasloff, MA, 304:238 Zatsepin, ST, 303:95 Zettl-Schaffer, K, 306:145 Zettl-Schaffer, KF, 298:89 Zhu, W, 306:34 Zicat, BA, 298:89 Ziran, BH, 302:138 Zorn, KE, 301:118 Zuckerman, JD, 306:256, 307:214

Zych, GA, 304:222

